

KENWOOD

DDX719 DDX7049BT DDX419 DDX4049BT DDX319 DDX3049

MONITOR WITH DVD RECEIVER **INSTRUCTION MANUAL**

JVC KENWOOD Corporation



Take the time to read through this instruction manual.

Familiarity with installation and operation procedures will help you obtain the best performance from your new DVD Receiver.

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your Kenwood dealer for information or service on the product.

Model DDX719/DDX7049BT/DDX419/DDX4049BT/DDX319/DDX3049 Serial number _____

US Residence Only

Register Online

Register your Kenwood product at **www.Kenwoodusa.com**

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(Only for DDX719/DDX7049BT/DDX419/DDX4049BT)

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Before use

⚠ **WARNINGS:**

(To prevent accidents and damage)

- DO NOT install any unit or wire any cable in a location where;
 - it may obstruct the steering wheel and gearshift lever operations.
 - it may obstruct the operation of safety devices such as air bags.
 - it may obstruct visibility.
- DO NOT operate the unit while driving. If you need to operate the unit while driving, be sure to look around carefully.
- The driver must not watch the monitor while driving.

⚠ **Cautions on the monitor:**

- The monitor built in this unit has been produced with high precision, but it may have some ineffective dots. This is inevitable and is not considered defective.
- Do not expose the monitor to direct sunlight.
- Do not operate the touch panel using a ball-point pen or similar tool with the sharp tip.
Press the buttons on the touch panel with your finger directly (if you are wearing a glove, take it off).
- When the temperature is very cold or very hot...
 - Chemical changes occur inside, causing malfunction.
 - Pictures may not appear clearly or may move slowly. Pictures may not be synchronized with the sound or picture quality may decline in such environments.

For safety...

- Do not raise the volume level too much, as this will make driving dangerous by blocking outside sounds, and may cause hearing loss.
- Stop the car before performing any complicated operations.

Temperature inside the car...

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

■ **How to reset your unit**

DDX719/DDX7049BT



DDX419/DDX4049BT/DDX319/DDX3049



If the unit fails to operate properly, press the Reset button. The unit returns to factory settings when the Reset button is pressed (except the registered Bluetooth devices).

How to read this manual:

- Illustrations of DDX719 are mainly used for explanation.
- This manual mainly explains operations using the buttons on the monitor panel and touch panel. For operations using the remote controller (RC-DV340: supplied only for DDX7049BTX/DDX4049BT/DDX3049), see page 63.
- < > indicates the variable screens/menus/operations/settings that appear on the touch panel.
- [] indicates the buttons on the touch panel.
- **Indication language:** English indications are used for the purpose of explanation. You can select the indication language from the <Setup> menu. (see page 51)

The displays and panels shown in this manual are examples used to provide clear explanations of the operations. For this reason, they may be different from the actual displays or panels.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

DDX719X/DDX419/DDX319:

⚠ CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

JVC KENWOOD Corporation
2967-3, ISHIKAWA-MACHI,
HACHIOJI-SHI, TOKYO, JAPAN

THIS PRODUCT COMPLIES WITH DHHS
RULES 21CFR SUBCHAPTER J IN EFFECT
AT DATE OF MANUFACTURE.

Location : Top Panel

DDX7049BT/DDX4049BT/DDX3049:

The marking of products using lasers

**CLASS 1
LASER PRODUCT**

The label is attached to the chassis/case and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

DDX719/DDX7049BT/DDX419/ DDX4049BT:

About KS-UBT1 (USB Bluetooth Adapter)

The USB Bluetooth Adapter is attached to this unit when shipped from the factory. When the adapter is removed, store it in a safe place.

INTRODUCTIONS

Initial Settings

Initial setup

When you power on the unit for the first time or reset the unit, the initial setting screen appears.

- You can also change the settings on the **<Setup>** screen. (☞ page 48)

1



Language	Select the text language used for on-screen information. (☞ page 51)
Angle Only for DDX719/DDX7049BT	Adjust the panel angle. (☞ the right column)
AV Input	Select an external component to play — <AV-IN2> or <iPod> . (☞ page 50)
R-CAM Interrupt	Select <ON> when connecting the rear view camera. (☞ page 50)
Panel Color	Select the color of the buttons on the monitor panel. (☞ page 43)

2 Finish the procedure.



Adjusting the panel angle

(Only for DDX719/DDX7049BT)

You can change the panel angle.

1 Select an angle (0 – 6).



To set the current position as the power off position, select **<Memory>**.

Updating the system

You can update the system by connecting a USB device containing the update file.

1 Create an update file, copy it to a USB device, and connect it to the unit.

To connect a USB device, see page 79.

2 On <Top Menu>:



3



4



It may take a while.

If the update has been complete successfully, "Update Completed" appears. Reset the unit.

- * If the update has failed, turn the power off and then on, and retry the update.
- * Even if you have turned off the power during update, you can restart the update after the power is turned on. The update will be performed from the beginning.

Activating the security function

You can activate the security indicator to protect your receiver system against theft.

1 On <Top Menu>:



2

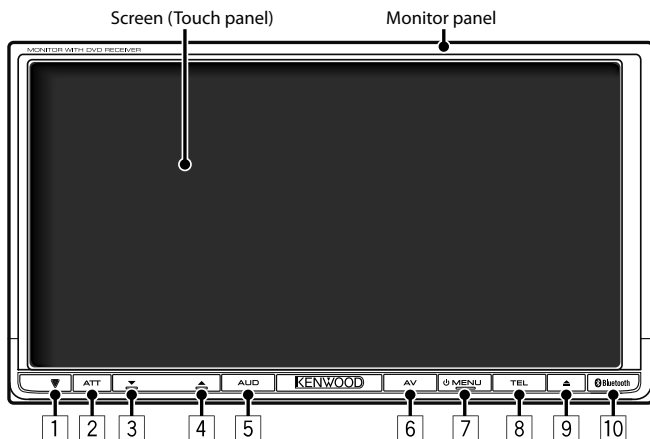






The security indicator on the monitor panel flashes when the vehicle ignition is off.

To cancel, select <OFF>.

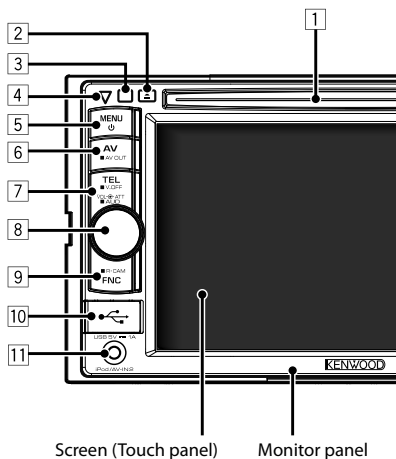
Component names and functions

DDX719/DDX7049BT



- 1 Reset button/Power indicator/Security indicator
 - Resets the unit. (☞ page 3)
 - Lights up while the unit is turned on.
 - Flashes when the security function is activated. (☞ page 7)
- 2 ATT button (Press)
 - Attenuates the sound.
 - V.OFF button (Hold)
 - Turns off/on the screen. (☞ page 11)
- 3 Volume  (down) button (☞ page 11)
 - Decreases the volume.
- 4 Volume  (up) button (☞ page 11)
 - Increases the volume.
- 5 AUD button (Press)
 - Displays the **<Equalizer>** screen. (☞ page 41)
- R-CAM button (Hold)
 - Displays the picture from the rear view camera.
- 6 AV button (Press)
 - Displays the current source screen.
 - AV OUT button (Hold)
 - Selects the AV source for external monitor or amplifier.
- 7 MENU/ button
 - Turns off the power. (Hold)
 - Turns on the power. (Press)
 - Displays the **<Top Menu>** screen. (Press) (☞ page 12)
- 8 TEL button (Press)
 - Displays the **<Handsfree>** screen. (☞ page 54)
- FNC button (Hold)
 - Displays the source control screen. (☞ page 12)
- 9  (Eject) button
 - Ejects the disc (Tilts the monitor panel fully).
 - Opens/Closes the monitor panel.
- 10 Remote sensor

DDX419/DDX4049BT/DDX319/DDX3049



- 1 Loading slot
- 2 ▲ (Eject) button
Ejects the disc.
- 3 Remote sensor
- 4 Reset button/Power indicator/Security indicator
 - Resets the unit. (ⓘ page 3)
 - Lights up while the unit is turned on.
 - Flashes when the security function is activated. (ⓘ page 7)
- 5 MENU/⏻ button
 - Turns off the power. (Hold)
 - Turns on the power. (Press)
 - Displays the <Top Menu> screen. (Press) (ⓘ page 12)

- 6 AV/AV OUT button
 - Displays the current source screen. (Press)
 - Selects the AV source for external monitor or amplifier. (Hold)

7 For DDX419/DDX4049BT:

TEL/V.OFF button

- Displays the <Handsfree> screen. (Press) (ⓘ page 54)
- Turns off/on the screen. (Hold) (ⓘ page 11)

For DDX319/DDX3049:

AUD/V.OFF button

- Displays the <Equalizer> screen. (Press) (ⓘ page 41)
- Turns off/on the screen. (Hold) (ⓘ page 11)

- 8 VOL/ATT knob (ⓘ page 11)
 - Attenuates the sound. (Press)
 - Adjusts the audio volume. (Turn)

For DDX419/DDX4049BT only:

AUD button

- Displays the <Equalizer> screen. (Hold) (ⓘ page 41)

- 9 FNC/R-CAM button

- Displays the source control screen. (Press) (ⓘ page 12)
- Displays the picture from the rear view camera. (Hold)

- 10 USB input terminal

- 11 iPod/AV-IN2 input terminal

Caution on volume setting:

Digital devices (CD/USB) produce very little noise compared with other sources. Lower the volume before playing these digital sources to avoid damaging the speakers by sudden increase of the output level.

You can change the color of the buttons on the monitor panel. (ⓘ page 43)

Setting the clock

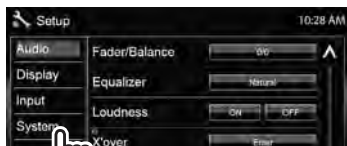
1 Display <Top Menu> screen.



2 Display <Setup> screen.



3



4 Set the clock time.



<NAV>*	Synchronizes the clock time with the connected navigation unit.
<Radio Data System>	Synchronizes the clock time with FM RBDS.
<OFF>	Sets the clock manually. (below)



① Adjust the hour

② Adjust the minute

[Reset]: Sets the minute to "00"

Example:

3:00 – 3:29 → 3:00

3:30 – 3:59 → 4:00

5 Finish the procedure.



* Appears only when the navigation unit is connected.

Common operations

Turning on the power

DDX719/
DDX7049BT



DDX419/
DDX4049BT/
DDX319/DDX3049



Turning off the power

DDX719/
DDX7049BT



DDX419/
DDX4049BT/
DDX319/DDX3049



Adjusting the volume

To adjust the volume (00 to 35)

DDX719/DDX7049BT



DDX419/DDX4049BT/DDX319/DDX3049



To attenuate the sound

DDX719/
DDX7049BT



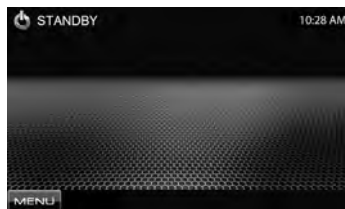
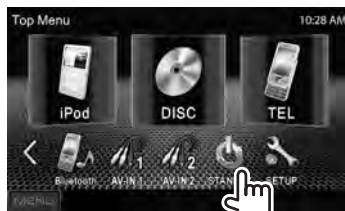
DDX419/
DDX4049BT/
DDX319/DDX3049



The ATT indicator lights up.

To cancel the attenuation, press the ATT button (DDX719/DDX7049BT) or VOL/ATT knob (DDX419/DDX4049BT/DDX319/DDX3049) again.

Putting the unit in standby

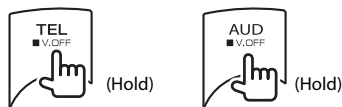


Turning off the screen

DDX719/DDX7049BT



DDX419/DDX4049BT DDX319/DDX3049



The screen is turned off.

To turn on the screen, press MENU/⏻.

Switching screens

Source control screen



<Top Menu>

- Changes the AV source.
- Displays the <Setup> screen.

You can select 3 items to be displayed in this area. (page 13)



page 11

<Setup>

Changes the detailed settings.

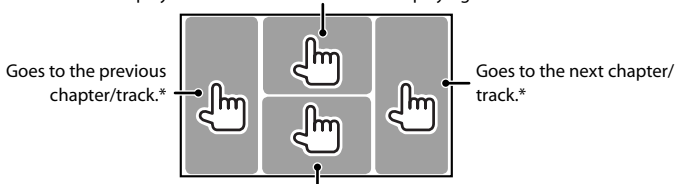
Changes the page



Press to return to the previous screen.

Touch screen operation

Displays the video control menu while playing a video.



Displays the source control screen while playing a video.

- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.

* Not available for video from an external component and rear view camera.

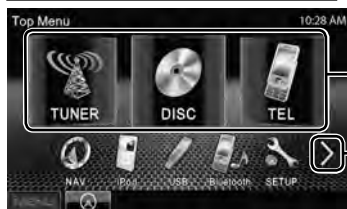
AV SOURCE OPERATIONS

Selecting the playback source

DDX719/DDX419/DDX319



DDX7049BT/DDX4049BT/DDX3049



NAV ^{*3} (📄 page 40)	Displays the navigation screen when a navigation unit is connected.
DISC (📄 page 15)	Plays a disc.
TEL ^{*4} (📄 page 57)	Displays the phone control screen.
USB (📄 page 22)	Plays files on a USB device.
iPod ^{*5} (📄 page 24)	Plays an iPod/iPhone.
TUNER (📄 page 29)	Switches to the radio broadcast.
AV-IN 1/AV-IN 2 ^{*5} (📄 page 39)	Switches to an external component connected to AV-IN input terminal.
Bluetooth ^{*4} (📄 page 61)	Plays a Bluetooth audio player.
PANDORA ^{*6} (📄 page 27)	Switches to the PANDORA® internet radio broadcast.
SiriusXM ^{*6} (📄 page 32)	Listen to SiriusXM™ channels.

^{*1} You can select 3 items to be displayed in this area. (📄 page 49)

^{*2} Switches between the previous and next pages.

^{*3} Only for DDX7049BT/DDX4049BT/DDX3049. When no navigation unit is connected, "No Navigation" appears.

^{*4} Only for DDX719/DDX7049BT/DDX419/DDX4049BT.

^{*5} Select an appropriate input setting on <AV Input>. (📄 page 50)

^{*6} Only for DDX719/DDX419/DDX319.

Displaying the source control screen

On each playback screen, perform the following:



or

DDX719/DDX7049BT



**DDX419/DDX4049BT/DDX319/
DDX3049**



- For DDX719/DDX7049BT, pressing and holding TEL hides the operation buttons. For DDX419/DDX4049BT/DDX319/DDX3049, pressing FNC/R-CAM hides the operation buttons.
- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.

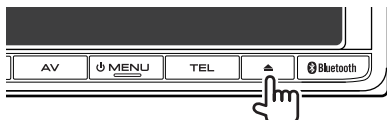
Disc operations

Playing a disc

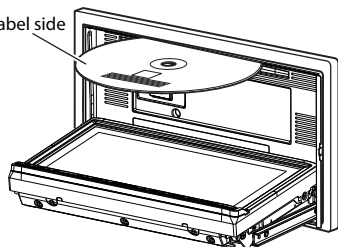
- If a disc does not have a disc menu, all tracks on it will be played repeatedly until you change the source or eject the disc.

■ Inserting a disc

DDX719/DDX7049BT

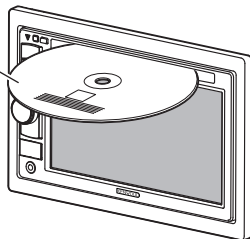


Label side



DDX419/DDX4049BT/DDX319/DDX3049

Label side



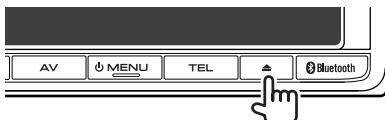
The source changes to **"DISC"** and playback starts.

- The IN indicator lights up while a disc is inserted.

- If "⊘" appears on the screen, the unit cannot accept the operation you have tried to do.
 - In some cases, without showing "⊘," operations will not be accepted.
- When playing back a multi-channel encoded disc, the multi-channel signals are downmixed to stereo.

■ To eject a disc

DDX719/DDX7049BT



DDX419/DDX4049BT/DDX319/DDX3049



- You can eject a disc when playing another AV source.
- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to protect it from dust.

When removing a disc, pull it horizontally.

Closing the monitor panel **(For DDX719/DDX7049BT)**

After removing the disc, press the eject button again. The monitor panel closes.

Playable disc types

Disc type	Recording format, file type, etc	Playable
DVD	DVD-Video ^{*1} Region Code: • For DDX719/DDX419/DDX319: 1 • For DDX7049BT/DDX4049BT/DDX3049: 4	✓OK
	DVD-Audio/DVD-ROM	✗NO
DVD Recordable/ Rewritable (DVD-R/-RW ^{*2}, +R/+RW ^{*3}) • DVD Video: UDF bridge • DVD-VR • DivX ^{*5} /MPEG1/MPEG2/ JPEG/MP3/WMA/WAV/AAC: ISO 9660 level 1, level 2, Romeo, Joliet	DVD-Video	✓OK
	DVD-VR ^{*4}	
	DivX ^{*5} /MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV/AAC	
	MPEG4/DVD+VR/DVD-RAM	✗NO
Dual Disc	DVD side	✓OK
	Non-DVD side	✗NO
CD/VCD	DTS-CD/Audio CD/CD Text (CD-DA)	✓OK
	VCD (Video CD)	
	SVCD (Super Video CD)/CD-ROM/CD-I (CD-I Ready)	✗NO
CD Recordable/ Rewritable (CD-R/-RW) • ISO 9660 level 1, level 2, Romeo, Joliet	CD-DA	✓OK
	VCD (Video CD)	
	DivX ^{*5} /MPEG1/MPEG2	
	JPEG	
	MP3/WMA/WAV/AAC	
	MPEG4	✗NO

^{*1} If you insert a DVD Video disc of an incorrect Region Code, "Region code error" appears on the screen.

^{*2} DVD-R recorded in multi-border format is also playable (except for dual layer discs). DVD-RW dual layer discs are not playable.

^{*3} It is possible to play back finalized +R/+RW (Video format only) discs. "DVD" is selected as its disc type when a +R/+RW disc is loaded. +RW double layer discs are not playable.

^{*4} This unit cannot play back contents protected with CPRM (Content Protection for Recordable Media).

^{*5} Playable only for DDX7049BT/DDX4049BT/DDX3049.

Caution for DualDisc playback

The Non-DVD side of a "DualDisc" does not comply with the "Compact Disc Digital Audio" standard. Therefore, the use of Non-DVD side of a DualDisc on this product may not be recommended.

Playback operations

To display the source control screen, page 14.

For DVD/DVD-VR/VCD/DivX/MPEG1/MPEG2/JPEG

- DVD Video: Title no./Chapter no.
- DVD-VR: Program no. (or Playlist no.)/Chapter no.*1
- DivX/MPEG1/MPEG2: Folder no./Track no.
- JPEG: Folder no./File no.
- VCD: Track no.

	Selects playback mode. (page 20)
	Starts/Pauses playback.
	Stops playback.
	<ul style="list-style-type: none"> • Selects chapter/track. (Press) • Reverse/forward search.*4 (Hold)

	<ul style="list-style-type: none"> • Reverse/forward search during playback.*4 • Plays back in slow-motion during pause.
[Mode] *5	Changes the settings for disc playback. (page 21)
[MENU]	Displays <Top Menu> screen.

- For DivX/MPEG1/MPEG2/JPEG, the following buttons also appear:

	Selects folder.
--	-----------------

	Displays folder/track list. (page 18)
--	--

*1 To display the Original Program/Playlist screen, page 19.

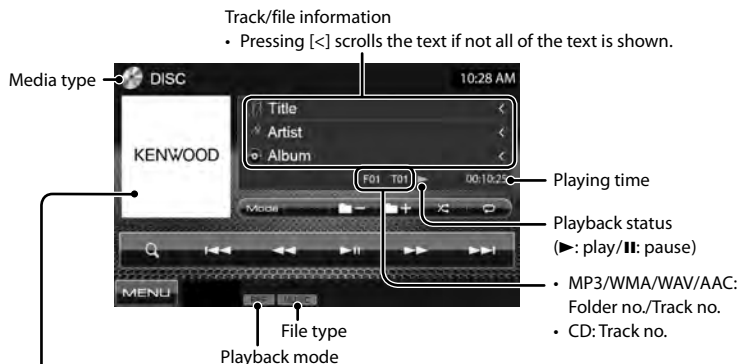
*2 Does not appear for DVD/DVD-VR/JPEG.

*3 Appears only for DVD/DVD-VR/VCD.

*4 Search speed varies depending on the type of disc or file.

*5 Does not appear for VCD.

For CD/MP3/WMA/WAV/AAC



While playing, the jacket picture is shown if the file has the tag data including the jacket picture.

	Selects playback mode. (page 20)
*1	Displays folder/track list. (below)
	Starts/Pauses playback.
*1	Selects folder.

	Selects track.
	Reverse/forward search.*2
[Mode] *1	Changes the settings for disc playback. (page 21)
[MENU]	Displays <Top Menu> screen.

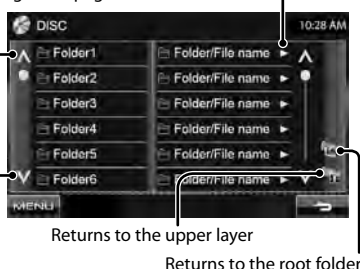
*1 Does not appear for CD.

*2 Search speed varies depending on the type of disc or file.

Selecting folder/track on the list

Plays tracks/files in the folder

Changes the page



Playing Recordable/Rewritable discs

- This unit can recognize a total of 5000 files and 250 folders (a maximum of 999 files per folder).
- Use only "finalized" discs.
- This unit can play back multi-session discs; however, unclosed sessions will be skipped while playing.
- Some discs or files may not be played back due to their characteristics or recording conditions.

■ Video menu operations

You can display the video menu screen while watching the playback pictures on the screen.

- Available items on the screen differ depending on the types of the loaded disc and playback files.
- The operation buttons disappear by touching the screen or when no operation is done for about 5 seconds.



- The screen for MPEG1/MPEG2 differs from the above.



[Audio]	Selects the audio type. <ul style="list-style-type: none"> • For DVD-VR: Selects the audio channel (ST: stereo, L: left, R: right).
[Subtitle]	Selects the subtitle type.
[Angle]	Selects view angle.
[MENU]	Displays the disc menu (DVD)/playlist (DVD-VR).
[T MENU]	Displays the disc menu (DVD)/original program (DVD-VR).
[CUR]	Displays the menu/playlist/original program item selecting screen. <ul style="list-style-type: none"> • [▲] [▼] [◀] [▶]: Selects an item. <ul style="list-style-type: none"> – For DivX only [◀] [▶]: Skips back or forward by about 5 minutes. • [ENTER]: Confirms the selection. • [RETURN]: Returns to the previous screen.
[Highlight]	Switches to the direct menu selection mode. Press the target item to select.
[Picture Adjust]	Displays picture adjustment screen. (ⓘ page 45)
[Aspect]	Selects aspect ratio. (ⓘ page 46)
[ZOOM]	Displays the picture size selecting screen. (ⓘ page 46)

Only for VCD

1



2



Direct selecting buttons (see below)

[Audio]	Selects the audio channel (ST: stereo, L: left, R: right).
[Return]	Displays the previous screen or the menu.
[MENU]	Displays the disc menu.
[Picture Adjust]	Displays picture adjustment screen. (see page 45)
[Aspect]	Selects aspect ratio. (see page 46)
[ZOOM]	Displays the picture size selecting screen. (see page 46)
[Direct]	Displays/hides the direct selecting buttons. (see below)

- To select a track directly



- To switch between chapter/track entry and title/folder entry, press **[Direct/CLR]**.
- When you enter a wrong number, press **[Direct/CLR]** to delete the last entry.

- To deactivate the PBC function, press **[■]** then the direct selecting buttons to select a track number.

Selecting playback mode

For DVD/DVD-VR



Selects Repeat playback mode

For VCD (without PBC)/CD/DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC



Selects Random playback mode*




Selects Repeat playback mode*

- * You cannot activate the repeat mode and the random mode at the same time.
- Each time you press the button, the playback mode changes. (The corresponding indicator lights up.)
– Available items differ depending on the types of loaded disc and playback file.

Indicator	Playback mode
C-REP	Repeats current chapter.
T-REP	Repeats current title/program.
REP	Repeats current track.
FO-REP	Repeats all tracks of the current folder.
RDM	Randomly plays all tracks.
FO-RDM	Randomly plays all tracks of current folder, then tracks of next folders.

To cancel, press the button repeatedly until the indicator disappears.

Settings for disc playback

Disc Setup items		Selectable setting/item	Initial: <u>Underlined</u>
For DVD/DVD-VR	Menu Language	Select the initial disc menu language; Initial English (page 70).	
	Subtitle Language	Select the initial subtitle language or erase the subtitle (OFF); Initial English (page 70). • Initial for DDX7049BT/DDX4049BT/DDX3049: English , for DDX719/DDX419/DDX319: OFF	
	Audio Language	Select the initial audio language; Initial English (page 70).	
	Down Mix	When playing back a multi-channel disc, this setting affects the signals reproduced through the front and/or rear speakers. ◆ Dolby Surround : Select this to enjoy multi-channel surround audio with Dolby Surround. ◆ Stereo : Normally select this.	
	Dynamic Range Control	You can change the dynamic range while playing Dolby Digital software. ◆ Wide : Select this to enjoy a powerful sound at a low volume level with its full dynamic range. ◆ Normal : Select this to reduce the dynamic range a little. ◆ Dialog : Select this to reproduce the movie dialog more clearly.	
For discs except VCD/CD	Screen Ratio	Select the monitor type to watch a wide screen picture on the external monitor. ◆ 16:9 ◆ 4:3 LB (Letterbox) ◆ 4:3 PS (PanScan)   	
For discs containing audio/video/picture files	File Type	Select the playback file type when a disc contains different types of files. ◆ Audio : Plays back audio files. ◆ Still Image : Plays back JPEG files. ◆ Video : Plays back DivX/MPEG1/MPEG2 files. ◆ Audio&Video : Plays back audio files and DivX/MPEG1/MPEG2 files. • For playable file types, page 16. • If the disc contains no files of the selected type, the existing files are played in the following order: audio, video, then still image.	

USB operations

Playing a USB device

- This unit can play JPEG/DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC files stored in a USB mass storage class device.
- This unit can recognize a total of 5 000 files and 250 folders (a maximum of 999 files per folder).
- Make sure all important data has been backed up to avoid losing the data.

■ Connecting a USB device

You can connect a USB mass storage class device such as a USB memory, Digital Audio Player etc. to the unit.

- You cannot connect a computer or portable HDD to the USB input terminal.
- To connect a USB device, see page 79.

When a USB device is connected...

The source changes to **"USB"** and playback starts.

- All tracks in the USB device will be played repeatedly until you change the source.

To disconnect the USB device safely

Press [▲], then disconnect the USB device after "No Device" appears.

Cautions:

- This unit may not play back files in a USB device properly when using a USB extension cord.
- USB devices equipped with special functions such as data security functions cannot be used with the unit.
- Do not use a USB device with 2 or more partitions.
- Depending on the shape of the USB devices and connection ports, some USB devices may not be attached properly or the connection might be loose.
- This unit cannot recognize a USB device whose rating is other than 5 V and exceeds 500 mA.
- This unit may not recognize a memory card inserted into the USB card reader.
- When connecting with a USB cable, use the USB 2.0 cable.
- The maximum number of characters for:
 - Folder names : 50 characters
 - File names : 50 characters
- Avoid using the USB device if it might effect driving safety.
- Do not pull out and connect the USB device repeatedly while "Reading..." is shown on the screen.
- Electrostatic shock at connecting a USB device may cause abnormal playback of the device. In this case, disconnect the USB device then reset this unit and the USB device.
- Operation and power supply may not work as intended for some USB devices.
- Do not leave a USB device in the car, or expose to direct sunlight or high temperature to avoid deformation or damage to the device.

To display the source control screen, page 14.

While playing, the jacket picture is shown if the file has the tag data including the jacket picture.



Track/file information (for MP3/WMA/WAV/AAC)

- Pressing [<] scrolls the text if not all of the text is shown.

Playing time
Playback status
(▶: play/||: pause)

Playback mode
File type

- MP3/WMA/WAV/AAC: Folder no./Track no.
- JPEG: Folder no./File no.

	Selects repeat playback mode. *1*2 • REP : Repeats current track. • FO-REP : Repeats all tracks of the current folder.
	Selects random playback mode. *1*2 • RDM : Randomly plays all tracks. • FO-RDM : Randomly plays all tracks of the folder.
	Press this button before disconnecting. (page 22)

	Displays folder/track list. (page 18)
	Starts/Pauses playback.
	Selects track.
	Reverse/forward search.*3
	Selects folder.
[Mode]	Changes the settings for file playback. (below)
[MENU]	Displays <Top Menu> screen.

- Available items differ depending on the types of playback file.

*1 To cancel random or repeat mode, press the button repeatedly until the indicator disappears.

*2 You cannot activate the repeat mode and the random mode at the same time.

*3 Search speed varies depending on the type of disc or file.

Setting <Screen Ratio>

Select the monitor type to watch a wide screen picture on the external monitor.

16:9	
4:3 LB (Letterbox)	
4:3 PS (PanScan)	

Setting <File Type>

Audio	Plays back audio files.
Still Image	Plays back JPEG files.
Video	Plays back DivX/MPEG1/MPEG2 files.
Audio&Video	Plays back audio files and DivX/MPEG1/MPEG2 files.

- If the USB device contains no files of the selected type, the existing files are played in the following order: audio, video, then still image.

Setting <Drive Select>

Press [**Next**] to switch to another USB device when multiple USB devices are connected via a USB hub or the like.

Listening to the iPod/iPhone device

■ Preparation

- Connect iPod/iPhone. (page 79)
- Use the following cables:
 - **To watch the video and to listen to the music (analog):** USB Audio and Video cable for iPod/iPhone—KCA-iP22F/KCA-iP202 (optional accessory)
 - **To listen to the music (digital):** USB Audio cable for iPod/iPhone—KCA-iP102 (optional accessory)
- Do not use extension cables.

iPod/iPhone that can be connected to this unit:

Made for

- iPod with video
- iPod classic
- iPod nano (6th Generation)
- iPod nano (5th Generation)
- iPod nano (4th Generation)
- iPod nano (3rd Generation)
- iPod nano (2nd Generation)
- iPod nano (1st Generation)
- iPod touch (4th Generation)
- iPod touch (3rd Generation)
- iPod touch (2nd Generation)
- iPod touch (1st Generation)
- iPhone 4
- iPhone 3GS
- iPhone 3G
- iPhone

Settings for iPod playback

When the source is "iPod"...

1



2



Audiobooks	Selects the speed of audio books.
-------------------	-----------------------------------

Artwork	Shows/hides the iPod artwork.
----------------	-------------------------------

Setting <AV Input>

You can change the setting only when the unit is in standby.

1

On <Top Menu>:



2



3



iPod/iPhone playback operations

To display the source control screen, (page 14).

- Select **"iPod"** as the source. (page 13)
- The operations explained in this manual are under the condition when the unit is selected for controlling playback. (below)

While playing, Artwork (the picture displayed on the screen of iPod/iPhone) is shown if the song contains the Artwork.*1

Song/video information

- Pressing [<] scrolls the text if not all of the text is shown.

Playing time

Playback status
(▶: play/||: pause)

Playback mode

[MENU]	Displays <Top Menu> screen.	[Q]	Displays the Music/Video menu on the iPod/iPhone. (page 26)
[Mode]	Changes the settings for iPod playback. (page 24)	[<<]	Selects a track/video.*3
[▶]	Starts/Pauses playback.	[>>]	Reverse/forward search.
[↺]	Selects Repeat playback mode.*2	[>>>]	
[X↺]	Selects Random playback mode.*2	[APP]	Select iPod to play back using iPod/iPhone—iPod control mode.*4 (page 26)
	<ul style="list-style-type: none"> • REP: Functions the same as "Repeat One." 		
	<ul style="list-style-type: none"> • RDM: Functions the same as "Shuffle Songs." • A-RDM: Functions the same as "Shuffle Albums." 		

*1 For changing the Artwork display setting, (page 24).

*2 To cancel random or repeat mode, press the button repeatedly until the indicator disappears. Not available in iPod control mode. (page 26)

*3 You cannot resume playback for video sources.

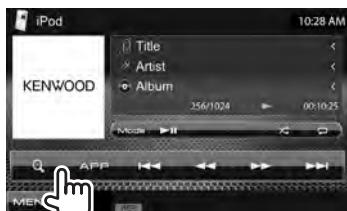
*4 When using iPod nano (1st Generation) or iPod with video, you can control playback only from the unit.

- When you turn on this unit, the iPod/iPhone is charged through the unit.
- The text information may not be displayed correctly.

- For some iPod/iPhone models, the performance may be abnormal or unstable during operation. In this case, disconnect the iPod/iPhone device, then check its condition. If the performance is not improved or is slow, reset your iPod/iPhone.
- For the latest compatible list and software version of iPod/iPhone, see: www.kenwood.com/cs/ce/ipod

Selecting a track/video from menu on the iPod/iPhone

1

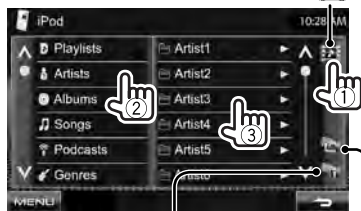


2 Select the menu (Music or Video) (①), a category (②), then a desired item (③).

- Select the item in the selected layer until a desired track starts playing.

Music menu:

Switches between Music (🎵) and Video (🎬)

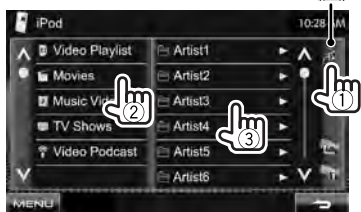


Returns to the previous layer

Returns to the top layer

Video menu:

Switches between Music (🎵) and Video (🎬)



- Available categories differ depending on the type of your iPod/iPhone.

Operating in iPod/iPhone control mode

You can play back the audio/video using iPod/iPhone itself instead of the unit.



Audio:



Video:



- When you are using Garmin StreetPilot® Onboard, the screen appears. For Garmin StreetPilot® Onboard for iPhone, visit the Garmin web site: www.garmin.com

Garmin App:




- The current position of your vehicle appears on the map. When the vehicle runs, the map scrolls.
- The screens of the iPhone and unit are not the same.
- To return to the normal mode, press [APP].

PANDORA® operations

(Only for DDX719/DDX419/DDX319)

- You can operate PANDORA using the remote controller. Only playing, pausing, and skipping are available.
- Install the latest version of the PANDORA® application on your iPhone.

The picture data is displayed if available from the current content.



Song information

- Pressing [<] scrolls the text if not all of the text is shown.

Playing time

Playback status
▶: play / ⏸: pause

	Displays the Stations list. (see below)		Skips the current song. <ul style="list-style-type: none"> • Not available when the PANDORA skip limitation is exceeded.
	Thumbs down to the current song and skips to the next song.		Registers the current song as favorite.
	Starts/Pauses playback.		Bookmarks the artist.
			Bookmarks the current song.

Selecting a station from the Stations list

Press the name of a station you want to listen to.



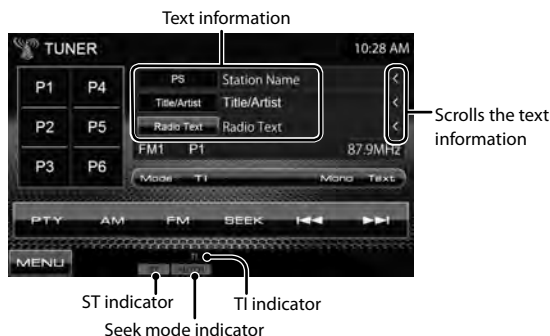
[Quick Mix]	Plays all the songs in the registered stations randomly.
[By Date]	Sorts the list in reverse chronological order.
[By Name]	Sorts the list in alphabetical order. <ul style="list-style-type: none"> • The letter selection screen appears. Select a letter, and the stations with the selected letter as their initial come to the top.

About Pandora® internet radio

The requirements for listening to Pandora are as follows:

- Use an Apple iPhone or iPod touch running under iOS3 or later.
- Search for "Pandora" in the Apple iTunes App Store to find and install the most current version of the Pandora® application on your device.
- In the application on your device, log in and create an account with Pandora. (If you are not already a registered user, an account can also be created at www.pandora.com.)
- Internet connection by 3G, EDGE, or WiFi.
- iPhone connected to this unit with a KCA-iP22F/KCA-iP202.
- Pandora® is available only in the U.S.
- Because Pandora® is a third-party service, the specifications are subject to change without prior notice. Accordingly, compatibility may be impaired or some or all of the services may become unavailable.
- Some functions of Pandora® cannot be operated from this unit.
- For issues using the application, please contact Pandora at pandora-support@pandora.com

Listening to the radio



- The ST indicator lights up when receiving an FM stereo broadcast with sufficient signal strength.

[P1] – [P6]	<ul style="list-style-type: none"> Turns in the preset station. (Press) Presets the currently tuned station. (Hold) 	[PTY]*	Enters FM RBDS program search mode. (☞ page 31)
[Mode]	Displays tuner setting screen. (☞ page 30)	[AM]	Selects AM band.
[TI]	Activates/deactivates TI standby reception mode. (☞ page 31)	[FM]	Selects FM band. → FM1 → FM2 → FM3
[Mono]*	Activates/deactivates monaural mode for better FM reception. (Stereo effect will be lost.) • The MONO indicator lights up while monaural mode is activated.	[SEEK]	Changes the seek mode. • AUTO1 : Auto Search • AUTO2 : Tunes in stations in memory one after another. • MANU : Manual Search
[Text]	Displays/hides the information of the current station. (☞ page 30)	[◀◀] [▶▶]	Searches for a station. • The search method differs according to the selected seek mode. (☞ above)
		[MENU]	Displays <Top Menu> screen.

* Appears only when FM is selected as the source.

Displaying the information of the current station



The station frequency currently tuned in/PS (station name) for FM RBDS when PS signal is coming in

Displays the text information

Preset list

Storing stations in memory

You can preset six stations for each band.

Automatic presetting—AME (Auto Memory)

1



2



Local stations with the strongest signals are searched and stored automatically.

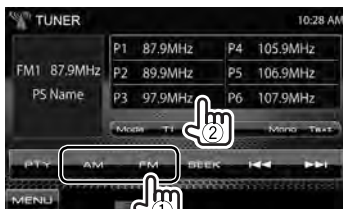
Manual presetting

- 1 Tune in to a station you want to preset. (see page 29)
- 2 Select a preset number.



The station selected in step 1 is stored.

Selecting a preset station



The following features are available only for FM RBDS stations.

■ Searching for FM RBDS program—PTY Search

You can search for your favorite programs being broadcast by selecting the PTY code for your favorite programs.

1



2 Select a PTY code.



Changes the page

PTY Search starts.

If there is a station broadcasting a program of the same PTY code as you have selected, that station is tuned in.

■ Activating/deactivating TI Standby Reception



TI indicator

TI indicator	TI Standby Reception
Lights in white	The unit will temporarily switch to Traffic Information (TI) if available.
Lights in orange	Not yet activated. Tune in to another station providing the RBDS signals.
Goes off	Deactivated.

- The volume adjustment for Traffic Information is automatically memorized. The next time the unit switches to Traffic Information, the volume is set to the previous level.

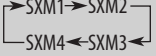
Listening to the SiriusXM™ Satellite Radio

(Only for DDX719/DDX419/DDX319)

Everything worth listening to is on SiriusXM, getting over 130 channels, including the most commercial-free music, plus the best sports, news, talk and entertainment. To start listening to the SiriusXM™ Satellite Radio, A SiriusXM Vehicle Tuner (sold separately) and Subscription are required. For more information, visits www.siriusxm.com.



[P1] – [P6]	<ul style="list-style-type: none"> • Tunes in the preset channel. (Press) • Presets the currently tuned channel. (Hold)
[Song Title] [Content Info] [Category]	Changes the displayed information each time this button is pressed.
[Mode]	Changes the settings of the reception restrictions. (☞ page 37)
[Direct]	Displays the Direct Channel Select screen. (☞ page 34)
[Text]	Displays/Hides the information on the current channel. (☞ page 34)
[IR]	Displays the Instant Replay screen. (☞ page 36)

[Q]	Obtain information on channels or select a category and then a channel. (☞ page 35)
[BAND]	Changes the band. 
[SEEK]	Changes the seek mode. <ul style="list-style-type: none"> • SEEK1: Skip to another available channel. • SEEK2: Skip to another preset channel.
[<<<] [>>>]	Seeks forward or backward (refer to the above for the SEEK mode).
[MENU]	Displays the <Top Menu> screen.

■ Radio activation

SiriusXM Satellite Radio operation requires the connection of the optional SiriusXM-Connect Vehicle Tuner (sold separately). To activate the SiriusXM Vehicle Connect tuner, you will need the Radio ID.

1 Make a note of your Radio ID.

For each SiriusXM Vehicle Connect tuner, peculiar Radio ID is assigned. To confirm your Radio ID, tune to channel 0.

- The letters I, O, S and F are not used in any Radio ID.

2 How to activate your SiriusXM Service

Go to www.siriusxm.com/activatenow or call 1-866-635-2349 to activate your SiriusXM Vehicle Connect Tuner.

3 When the following screen appears, press [Enter].



Displaying the information on the current channel



Band no./
Radio ID* (or Preset no. if the
current station is preset)/
Channel no.

Displays the text
information

Preset list

* The Radio ID is displayed when the channel is set to 0.

Storing channels in memory

You can preset six channels for each band.
(24 in total)

- 1 Tune in to a channel you want to preset. (See page 32)
- 2 Select a preset number.



The channel selected in step 1 is stored.

Selecting a preset channel



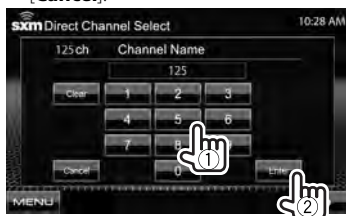
Selecting a channel directly

1



- 2 Enter a channel no. (1), and then confirm (2).

- To clear the entry, press [Clear].
- To cancel selecting the channel, press [Cancel].



■ Displaying information on channels

You can obtain information on channels or select a category and then a channel.

1



2 Select [Preset List] or [Channel List].



3

Preset List

Select a band (①) and then a preset channel (②).



Channel List

Select a category (①) and then a channel (②).



- To list all the channels, select [**All Channels**].
- Pressing the info change button under the list displays information in the following order:
Channel Name → Artist Name →
Song Title → Content Info



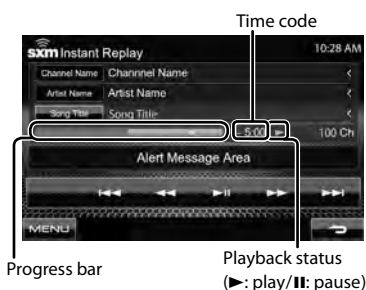
Info change button

■ Using the Instant Replay function

You can temporarily record up to 30 minutes of the broadcast from the current time, and replay the recorded data.

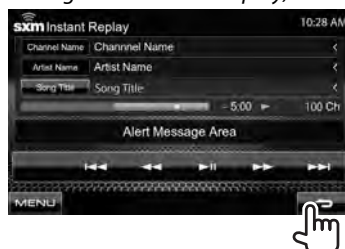
- If you change to another channel during playback, the recorded content will be lost.
- When the recording time reaches 30 minutes, the older recorded data is deleted and recording continues.

Entering the Instant Replay mode



Progress bar	Shows the remaining capacity (gray) and the amount of recorded data (blue). If you have already recorded 30 minutes, the entire bar is indicated in blue. • Updated every second.
Time code	This display shows you how many minutes into a recording that are being played back. • Example: -5:00 You are listening to the data of 5 minutes before the current broadcast. • Updated every second.
[⏮]	• Returns to the previous track if pressed within 2 seconds from the beginning of the current track. • Returns to the beginning of the current track if pressed after 2 seconds or more of the track have been replayed.
[⏪]	Rewind/Fast forward
[⏸]	Starts/Pauses playback.
[⏩]	Skips the current track.

Exiting the Instant Replay mode (Returning to the normal display)



■ Setting the reception restrictions

Display the SiriusXM Mode screen to configure the settings.



Setting the parental lock

You can set the parental lock or parental mature lock in order to, for example, restrict children from receiving adult channels.

Setting/Changing the parental code

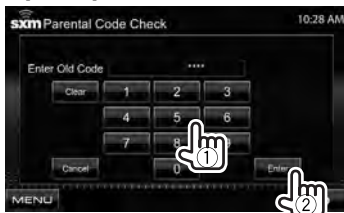
- Changing the code does not change the Parental Mature Lock/Parental Lock Channel/Channel Skipping settings.

1



2 Enter a four-digit code (①), and then confirm (②).

- To clear the entry, press [Clear].
- To cancel setting the code, press [Cancel].



- The initial setting is "0000".

3 Enter a four-digit code (①), and then confirm (②).

- To clear the entry, press [Clear].
- To cancel setting the code, press [Cancel].



4 Enter the four-digit code and then press [Enter] again to confirm the code.

Activating/Deactivating the parental mature lock

You can set the parental lock on channels classed as "adult" by SiriusXM™.

- To enable the parental control based on Mature channels, press [ON] next to "Parental Mature Lock".
- To release the lock, press [OFF].



Enter the parental code to confirm your choice.

Activating the parental lock on each channel

This parental control option allows you to pick the channels to be locked by the parental control feature.

1



2 Enter the parental code.

3 Select a category (①) and then a channel (②).

- To list all the channels, select [All Channels].
- A checkmark appears beside the selected channel.



Repeat this step if you want to set the lock on multiple channels.

- Checkmarks appear beside the locked channels, and the channels are disabled.

Deactivating the parental lock



Enter the parental code.

All the locked channels will be deactivated.

Skipping unwanted channels

If you do not want to receive some channels, you can skip them.

Activating the channel skipping

1



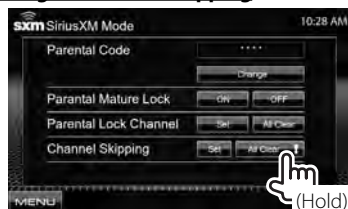
2 Select a category (①) and then a channel (②).

- To list all the channels, select [All Channels].
- A checkmark appears beside the selected channel.



Repeat this step if you want to skip multiple channels.

Clearing the channel skipping



All the skipped channels will be cleared.

Using other external components

To display the source control screen, see page 14.

AV-IN name (see below)



[Mode]	Changes the AV-IN name. <ul style="list-style-type: none">• Press [◀] or [▶] to select an AV-IN name.• This setting does not affect the source name "AV-IN 1"/"AV-IN 2" displayed on <Top Menu>.
[MENU]	Displays <Top Menu> screen.

AV-IN

You can connect an external component to the AV-IN terminal.

Preparation:

If you want to use AV-IN2, select <AV-IN2> for <AV Input> setting. (see page 50)

1 Connect an external component.

To connect it, see page 79, 80.

2 Select "AV-IN 1" or "AV-IN 2" as the source. (see page 13)

3 Turn on the connected component and start playing the source.

Using the external navigation unit

(Only for DDX7049BT/DDX4049BT/DDX3049)

You can connect a navigation unit (KNA-G610/KNA-G630: optional accessory) to the navigation input terminal so that you can view the navigation screen. (page 80)

The navigation guidance comes out through the front speakers even when you listen to an audio source.

■ To view the navigation screen

On <Top Menu>:



or

On any screen:



The navigation screen is activated.

- While the navigation screen is displayed, the touch panel operations are available only for using navigation function.
- The aspect ratio of the navigation screen is fixed to <FULL> regardless of the <Aspect> setting (page 46).

To cancel the navigation screen

DDX7049BT

**DDX4049BT/
DDX3049**

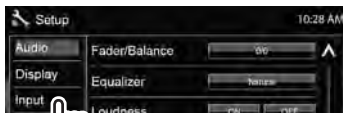


■ Settings for navigation unit

1 On <Top Menu>:



2



3



Guidance	Select front speakers used for the navigation guidance.
Volume	Adjust the volume of the navigation guidance. (0 to 35)
NAV Mute	Select <ON> to attenuate the sound coming through speakers other than the front speakers during navigation guidance.
NAV Setup	Press [Enter] to display the setup screen for the navigation unit. See the instruction manual supplied for the navigation unit.

Sound adjustment

Using the sound equalization

- The adjustment is memorized for each source until you adjust the sound again. If the source is a disc, the adjustment is stored for each of the following categories.
 - DVD/DVD-VR
 - VCD/CD
 - DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC
- **You cannot adjust the sound when the unit is in standby.**

■ Selecting a preset sound mode

- 1 On **<Top Menu>**:



2



- 3 Select a sound mode.



Changes the page

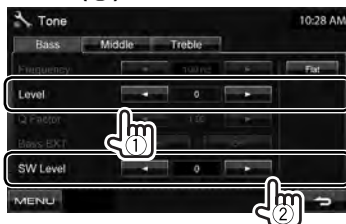
■ Storing your own adjustment

Customizing preset sound mode

- 1 Select a sound mode. (E3)
"Selecting a preset sound mode")
- 2 Set **<SystemQ- Ex>** to **<OFF>**
(①), then press **[Tone]** (②).



- 3 Adjust the level of each band (①), then select the subwoofer level* (②).



The adjustments are stored and **<User>** is activated.

* Adjustable only when the subwoofer is activated.
(E3 page 48)

Adjusting the sound precisely

- 1 Perform steps 1 and 2 of "Selecting a preset sound mode," then...



2



- 3 Adjust the sound of each band.



Flat	Changes level of Bass/Middle/Treble to 0.
Frequency	Selects frequency.
Level	Adjusts level.
Q Factor	Adjusts the width of the frequency.
Bass EXT	Activates/deactivates bass.
SW Level	Adjusts subwoofer level.*

The adjustments are stored and <User> is activated.

* Adjustable only when the subwoofer is activated. (p. 48)

Adjusting the cross over frequency

- 1 On <Top Menu>:



2



- 3 Select the item to adjust, then make adjustment.

Adjusts the cross over for front or rear speakers (high pass filter).



Adjusts the cross over for subwoofer (low pass filter).*1



Adjusts the cross over frequency.

Selects the phase for the subwoofer.*2

Adjusts the subwoofer level.

*1 Adjustable only when the subwoofer is activated. (p. 48)

*2 Not selectable when <Freq> is set to <Through>.

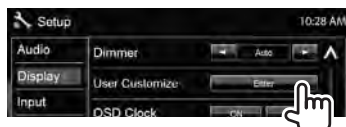
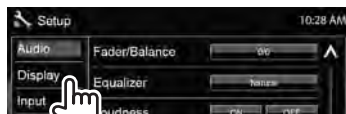
Changing the display design

You can change the background and panel color.

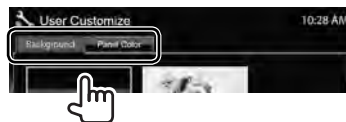
1 On <Top Menu>:



2



3 Select an item to change (<Background> or <Panel Color>).



4 Select a background/panel color.

To select a background

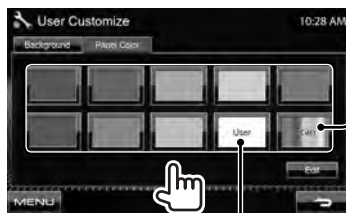


For setting your favorite scene as the background, see page 44

To select a panel color

Variable color illumination

- Illumination color changes gradually.

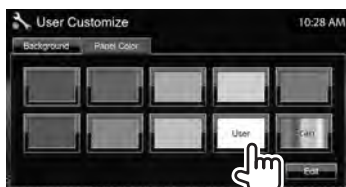


For making your own color adjustment, see below

Making your own color adjustment

- You can make your own color adjustment only when <User> is selected.

1

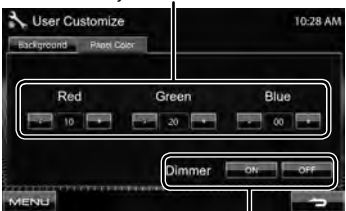


2



3

User color adjuster: You can make your own color adjustment stored in <User>



Dimmer setting: You can make the color adjustment for each dimmer setting

Using your favorite scene as the background

While playing a video or JPEG, you can capture an image and use the captured image as a background.

- You cannot capture copyrighted content and images from iPod/iPhone.
- When using a JPEG file as the background, make sure that the resolution is 800 x 600 pixels.
- The color of the captured image may look different from that of the actual scene.

1 Play back a video or JPEG.

2 Display <User Customize>. (ES)

page 43)

3



4 Adjust the image.



- [▶||]* Starts/Pauses playback.
- [▶]* Advances scenes frame-by-frame.
- [🔍] Magnifies the scene.
(<OFF>, <Zoom1> – <Zoom3>)
- [▲] [▼] Moves the zooming frame.
[◀] [▶]

- To cancel the capture screen, press [Cancel].

* Not displayed when playing an external component connected to AV-IN input terminal.

5 Capture the image displayed on the screen.



A confirmation message appears. Press [Yes] to store the newly captured image. (The existing image is replaced with the new one.)

- Press [No] to return to the previous screen.

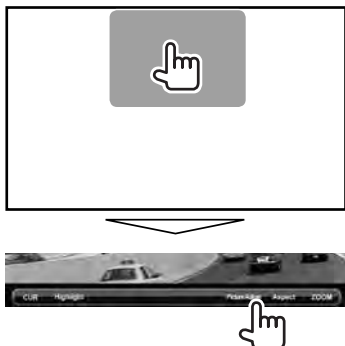
Setting for video playback

You can change the setting for video playback.

Picture adjustment

You can adjust the picture quality.

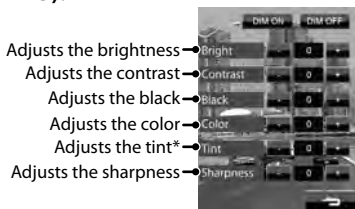
1 Display the adjustment menu.



2 Select dimmer on (<DIM ON>) or off (<DIM OFF>).



3 Adjust the picture (-15 to +15).



* Adjustable only when the incoming signal is NTSC.

Changing the aspect ratio

You can change the aspect ratio for video playback.

1



2



	4:3 signal	16:9 signal
FULL*: For 16:9 original pictures		
JUST: For 4:3LB original pictures		
Normal*: For 4:3 original pictures		
Auto:	<ul style="list-style-type: none"> For "DISC"/"USB" only: Aspect ratio is automatically selected to match to the incoming signals. 	

* While DivX is played back with <Screen Ratio> set to <16:9> (for disc: page 21/ for USB: page 23), the aspect ratio is not set correctly.

Zooming picture

You can zoom the picture (<Zoom1> to <Zoom3>).

- When <Aspect> is set to <JUST> or <Auto> (left column), the picture is zoomed with the aspect ratio of the <FULL> setting.

1



2



[▲] [▼] [◀] [▶]: Moves the zooming frame.

Using a rear view camera

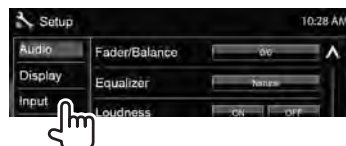
- To use a rear view camera, the REVERSE lead connection is required. For connecting a rear view camera, see page 80.

■ Activating the rear view camera

- 1 On <Top Menu>:



2



3



To deactivate, select <OFF>.

■ Displaying the picture from the rear view camera

The rear view screen is displayed when you shift the gear to the reverse (R) position.



- To erase the caution message, touch the screen.

To display the picture from the rear view camera manually

DDX719/
DDX7049BT

DDX419/
DDX4049BT/
DDX319/DDX3049



When displaying the picture from the rear view camera manually, you can change the setting of the picture. (see page 45)

To cancel the rear view screen, press and hold the same button again.

Setting menu items



- You cannot change <Audio> settings when the unit is in standby.

Menu item		Selectable setting/item	Initial: <u>Underlined</u>
Audio	Fader/Balance	<p>Fader : Adjust the front and rear speaker output balance. ◆ F6 to R6; Initial <u>0</u></p> <ul style="list-style-type: none"> When using a two-speaker system, set the fader to the center (<u>0</u>). <p>Balance : Adjust the left and right speaker output balance. ◆ L6 to R6; Initial <u>0</u></p> <p>Press [\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright] or drag [\oplus] to adjust. • To clear the adjustment, press [Center].</p>	
	Equalizer	<p>Change the sound mode or adjust and store the equalization for each source. (ⓘ page 41)</p> <p>◆ <u>Natural/Rock/Pops/Easy/Top40/Jazz/User</u></p>	
	Loudness	<p>You can activate/deactivate the loudness function.</p> <p>◆ OFF : Cancels.</p> <p>◆ ON : Boost low and high frequencies to produce a well-balanced sound at a low volume level. The LOUD indicator lights up.</p>	
	X'over	Adjust the cross over frequency. (ⓘ page 42)	
	Volume Offset	<p>Adjust and store the auto-adjustment volume level for each source. (For discs, the adjustment is stored for each of the following categories: DVD/DVD-VR, VCD/CD, and DivX/MPEG1/MPEG2/MP3/WMA/WAV/AAC.) The volume level will automatically increase or decrease when you change the source.</p> <p>◆ -15 to +6; Initial <u>0</u></p>	
	Subwoofer	<p>◆ ON : Activates the subwoofer.</p> <p>◆ OFF : Cancels.</p>	
	Speaker Select	<p>Select the size of the connected speaker.</p> <p>◆ <u>Standard/Narrow/Middle/Wide</u></p>	

Menu item		Selectable setting/item	Initial: <u>Underlined</u>
Display	Dimmer	<p>◆ <u>Auto</u> : Dims the screen and button illumination when you turn on the headlights.</p> <ul style="list-style-type: none"> The ILLUMI lead connection is required. (☞ page 78) <p>◆ ON : Activates dimmer.</p> <p>◆ OFF : Cancels.</p> <p>◆ NAV : Activates or deactivates dimmer according to the day/night display setting of the connected navigation unit.</p>	
	User Customize	Change the display design (background and panel color). (☞ page 43)	
	OSD Clock	<p>◆ ON : Displays the clock while a video source is played back.</p> <p>◆ <u>OFF</u> : Cancels.</p>	
	Scroll	<p>◆ <u>ON</u> : Repeats scrolling.</p> <p>◆ Once : Scrolls the displayed information once.</p> <p>◆ OFF : Cancels.</p> <p>• Pressing [<] scrolls the text regardless of this setting.</p>	
	Menu Customize	<p>Select the large buttons to be displayed on the <Top Menu> screen.</p> <p>Press [Enter] to display the setting screen. Select the icon you want to show as large button by pressing [<] or [>], then press the target icon to confirm.</p>	
	Screen Adjust	<p>Adjust the brightness and black color of the screen.</p> <p>Select the dimmer mode (<DIM ON> or <DIM OFF>) for adjustment, then change the following settings:</p> <p>◆ Bright : Adjusts brightness (–15 to +15; Initial +15).</p> <p>◆ Black : Adjusts black (–15 to +15; Initial 0).</p>	
	Video Output*	<p>Select the color system of the external monitor.</p> <p>◆ <u>NTSC/PAL</u></p>	
	Angle Only for DDX719/ DDX7049BT	Adjust the panel angle. (☞ page 5)	

* “Please power off” appears when the setting is changed. Turn off the power, then turn on to enable the change.

Menu item		Selectable setting/item	Initial: <u>Underlined</u>
Input	AV Input	You can determine the use of AV-IN input terminal. ◆ AV-IN2 : Select to play an AV component connected to the AV-IN input terminal. ◆ <u>iPod</u> : Select when connecting the iPod/iPhone using the USB Audio and Video cable for iPod/iPhone. (page 24)	
	R-CAM Interrupt	◆ ON : Displays the picture from the rear view camera when you shift the gear to the reverse (R) position. ◆ <u>OFF</u> : Cancels.	
	Navigation DDX7049BT/ DDX4049BT/DDX3049	Change the navigation settings. (page 40)	
	NAV Mute DDX719/DDX419/ DDX319	Attenuate the sound coming through speakers other than the front speakers.	

Menu item		Selectable setting/item	Initial: <u>Underlined</u>
System	Language*	Select the text language used for on-screen information. ◆ English/Spanish/French/German/Italian/Dutch/Russian/Portuguese/Chinese-Simplified/Chinese-Traditional/Thai/Turkish/Arabic/Persian/Hebrew/Greece/Indonesia • For external monitors, only English/Spanish/French/German/Italian/Dutch/Russian/Portuguese are available. If another language has been selected, the text language for external monitors will be set to English. ◆ GUI Language : Select a language (< <u>English</u> > or < <u>Local</u> >: the language selected above) used for displaying operation buttons and menu items.	
	Clock	Adjust the clock time. (📖 page 10)	
	Beep	◆ ON : Activates the key-touch tone. ◆ OFF : Cancels.	
	Remote Sensor	◆ ON : Activates the remote sensor. ◆ OFF : Cancels.	
	SETUP Memory	You can memorize, recall, clear, or lock the settings you have made. (📖 page 52)	
	DivX(R) VOD Only for DDX7049BT/ DDX4049BT/DDX3049	This unit has its own Registration Code. Once you have played back a file with which the Registration Code recorded, this unit's Registration Code is overwritten for copyright protection. • Press [Enter] to display the information. • To return to the previous screen, press [OK].	
	SI	Activate or deactivate the security function. (📖 page 7)	
	Serial Number	Displays the serial number.	
	Touch Panel Adjust	Adjust the touch position of the buttons on screen. (📖 page 52)	
	System Information	Displays the version information on the software. You can update the software. (📖 page 6)	

* "Please power off" appears when the setting is changed. Turn off the power, then turn on to enable the change.

Memorizing/recalling the settings

You can memorize the settings changed in the **<Setup>** menu and recall the memorized settings anytime.

- The memorized settings are kept even when the unit is reset.

1 On **<Setup>**:



2



- To cancel, press **[No]**.

3 Select an operation.



[Recall]: Recalls the memorized settings.

[Memory]: Memorizes the current settings.


[Clear]: Clears the currently memorized settings.

- To cancel, press **[Cancel]**.

Confirmation message appears. Press **[Yes]**.

Locking the settings

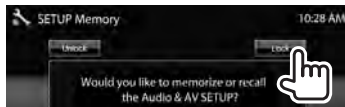
You can lock the settings to prevent them from being changed.

-  is shown beside the settings that can be locked.

1 On **<Setup>**:



2



To unlock the setting, press **[Unlock]**.

Adjusting the touch position

You can adjust the touch position on the touch panel if the position touched and the operation performed do not match.

1 On **<Setup>**:



2 Touch the center of the marks at the lower left and at the upper right as instructed.



- To cancel the current operation, press **[Cancel]**.
- To reset to the initial setting, press **[Reset]**.

BLUETOOTH OPERATIONS

(Only for DDX719/DDX7049BT/DDX419/DDX4049BT)

Information for using Bluetooth® devices

- While driving, do not perform complicated operations such as dialing the numbers, using phonebook, etc. When you perform these operations, stop your car in a safe place.
- Some Bluetooth devices may not be connected to this unit depending on the Bluetooth version of the device.
- This unit may not work for some Bluetooth devices.
- Connecting condition may vary depending on circumstances around you.
- When the unit is turned off, the device is disconnected.

Bluetooth operations



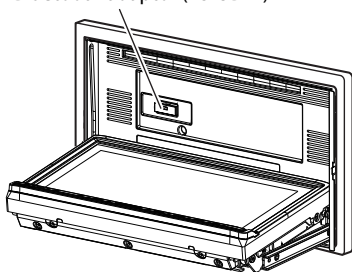
Bluetooth is a short-range wireless radio communication technology for the mobile device such as mobile phones, portable PCs, and other devices. The Bluetooth devices can be connected without cables and communicate with each other.

Preparation:

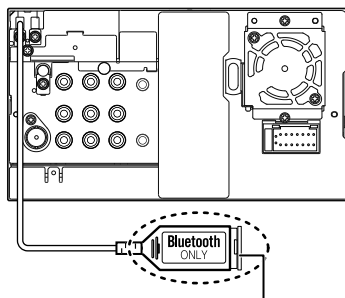
Be sure to connect Bluetooth adapter KS-UBT1 (supplied) and microphone (supplied) beforehand. (☞ page 78)

DDX719/DDX7049BT

Bluetooth adaptor (KS-UBT1)



DDX419/DDX4049BT



Bluetooth adaptor (KS-UBT1)

Connecting Bluetooth devices

■ Connecting a new Bluetooth device for the first time

When you connect a Bluetooth device to the unit for the first time, make pairing between the unit and the device. Pairing allows Bluetooth devices to communicate each other.

To make pairing, you may need to enter the PIN (Personal Identification Number) code of your Bluetooth device you want to connect.

- Once the connection is established, it is registered in the unit even if you reset the unit. Up to 5 devices can be registered in total.
- Only one device for Bluetooth phone and one for Bluetooth audio can be connected at a time.
- To use the Bluetooth function, you need to turn on Bluetooth function of the device.
- The maximum digit of the PIN code that can be set is 16.

1 Display the Bluetooth setting screen.

On **<Top Menu>**:



For connecting a Bluetooth mobile phone



<Handsfree Mode> is displayed.

For connecting a Bluetooth audio player

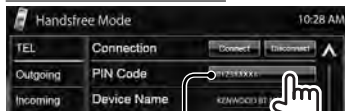


<Bluetooth Mode> is displayed.

2 Change the PIN code.

- If you skip changing the PIN code, go to step 3.

On **<Handsfree Mode>**:

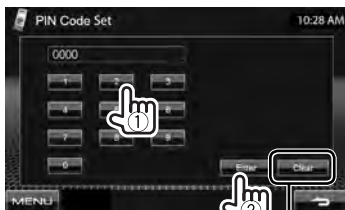


PIN code (initial: 0000)

On **<Bluetooth Mode>**:



PIN code (initial: 0000)

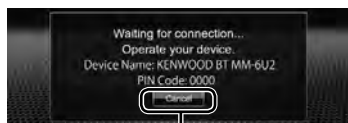


Deletes last character

3



4



Cancel

5 Operate the Bluetooth device to connect.

"Connected" appears. Press [OK] to confirm the operation.
Now connection is established and you can use the Bluetooth device through the unit.

■ Connecting/disconnecting a registered Bluetooth device

1 Display the Bluetooth setting screen. (☞ page 54)

- For Bluetooth mobile phone: **<Handsfree Mode>**
- For Bluetooth audio player: **<Bluetooth Mode>**

2 To connect



Select the device you want to connect.



- All registered devices (mobile phone and audio player) are listed on **<Connect Device>**.
– Selectable items depend on the device you are operating.

To disconnect



A confirmation message appears. Press [Yes].

■ Deleting a registered Bluetooth device

1 On <Connect Device> (☞ Step 2 on the left column):



2 Select a device to delete the registration.

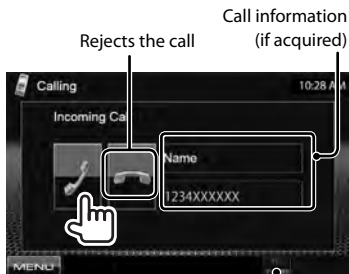


Confirmation message appears. Press [Yes].

Using the Bluetooth mobile phone

■ Receiving a call

When a call comes in...



Status of the device/Battery reminder (only when the information comes from the device)

- Phone operation is not available while the picture from the rear view camera is displayed. (☞ page 47)

When <Auto Response> is set to <On>

The unit answers the incoming call automatically. (☞ page 62)

■ Ending a call

While talking...



■ Adjusting the volume of microphone

While talking...





- This adjustment does not affect the volume level of the other sources.
- To adjust the volume of calls/earpiece, use the volume knob on the monitor panel.

■ Switching between handsfree mode and phone mode

While talking...



Each time you press the button, the talking method is switched ( : handsfree mode /  : phone mode).

■ Checking SMS reception

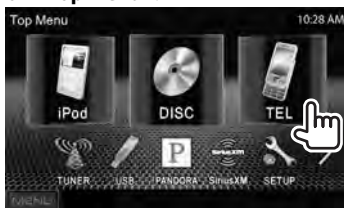
If the mobile phone is compatible with SMS (Short Message Service), the unit tells you a message has been received.

To read a received message, operate the mobile phone after stopping the car in a safe place.

- You cannot read, edit, or send a message through the unit.

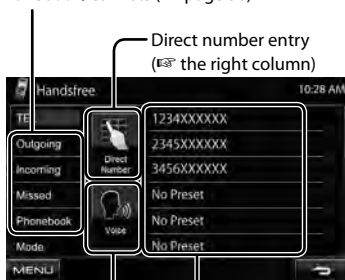
■ Making a call

1 On <Top Menu>:



2 Select a method to make a call.

Phonebook/Call lists (see page 58)



Direct number entry
(see the right column)

Preset list (For presetting,
see page 59)

Voice dialing (see the right column)

Direct number entry

Deletes last character



Hold: Adds "+"

Presets the entered phone number on the
preset list (see page 59)

- You can enter up to 32 numbers.

Voice Dialing

- Available only when the connected mobile phone has the voice recognition system.



Speak the name you want to call.

To cancel, press [Cancel].

Using the phonebook/call lists

1



Outgoing	From dialled call list.
Incoming	From received call list.
Missed	From missed call list.
Phonebook	From phonebook. • For copying the phonebook, see page 59.



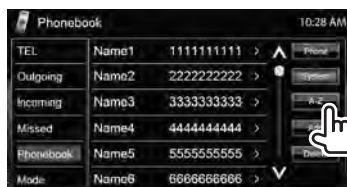
2



To use the A-Z search on the phonebook

When <Phonebook> is selected, you can search by initial.

1



2 Select the initial. If the initial is not a letter or number, press [Others].



3 Select a phone number from the list.



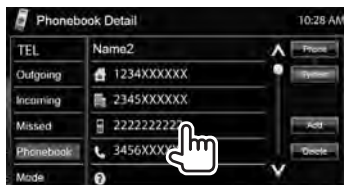
To display the details of an entry

When <Phonebook> is selected...

1 Press the right arrow icon of an entry.



2 To make a call, select a phone number.



■ Presetting the phone numbers

You can preset up to 6 phone numbers.

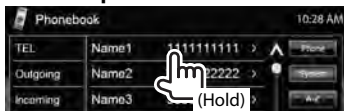
1 On <Top Menu>:



2 Select an item from phonebook/call lists.



3 Select a phone number.



4 Select a preset number to store.



- You can also preset the phone number entered on <Direct Number> screen by pressing [**Preset**]. (see page 57)

To delete the preset phone numbers, initialize the settings from <Initialize> in <Handsfree Mode>. (see page 62)

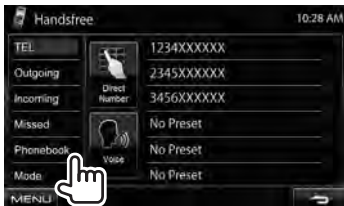
■ Copying the phonebook

You can copy the phonebook memory of a mobile phone into the unit (up to 400 entries).

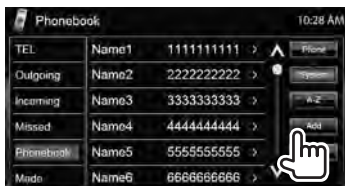
1 On <Top Menu>:



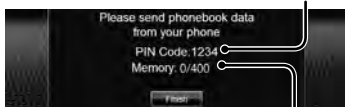
2



3



PIN code (initial: 0000)



Numbers of the phonebook entries copied

4 Operate the target mobile phone.

- Refer to the instruction manual supplied with your mobile phone.
- **To cancel the transfer,** press [**Finish**].

5 Finish the procedure.

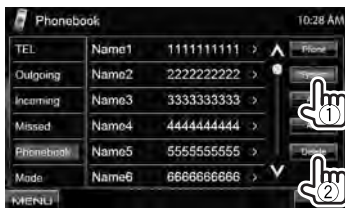


The phonebook memory is copied from the mobile phone.

■ Deleting the phone number entries in the unit

1 Display the phonebook/call list you want to delete. (See page 58)

2



- You cannot delete data when <Phone> is selected.

3 Select the item you want to delete.



Delete all the numbers/
names in the selected item

A confirmation message appears. Press [Yes].

■ About mobile phones compatible with Phone Book Access Profile (PBAP)

If your mobile phone supports PBAP, the phonebook and call lists are automatically copied to the unit when the mobile phone is connected.

- Phonebook: up to 5 000 entries
- Dialed calls, received calls, and missed calls: up to 50 entries each

To display the phonebook/call lists of the mobile phone or the unit

Connected mobile phone



Using the Bluetooth audio player

- To register a new device, page 54.
- To connect/disconnect a device, page 55.



Tag data (current track title/
artist name/album title)*

- Pressing [] scrolls the text if not all of the text is shown.

Playing time*

Playback status*

(▶: play/⏸: pause)

Battery reminder (only when the information comes from the device)

- The operation buttons, indications and information displayed on the screen differ depending on the connected device.

[▶]	Starts playback.
[⏸]	Pauses.
[◀◀▶▶]	<ul style="list-style-type: none"> • Selects track. (Press) • Reverse/forward search* (Hold)

[Mode]	Displays the Bluetooth setting screen. (below)
[MENU]	Displays <Top Menu> screen.

* Available only for the devices compatible with AVRCP 1.3.

Bluetooth device settings

For Bluetooth mobile phone:

- 1 On <Top Menu>:



2





For Bluetooth audio player:

- 1 On <Top Menu>:



2



Menu items	Selectable setting/item	Initial: <u>Underlined</u>
Connection	◆ Connect :  page 55 ◆ Disconnect :  page 55	
PIN Code	Changes the PIN code of the unit. • Enter a new PIN code, then press [Enter] .	
Device Name	Shows the device name to be shown on the Bluetooth device — “KENWOOD BT MM-6U2.”	
Device Address	Shows the device address of the unit.	
Phone Device* ¹	Shows the connected phone device name.	
Audio Device* ²	Shows the connected audio device name.	
Auto Connect	◆ OFF : Cancels. ◆ <u>ON</u> : The connection is automatically established with the last connected Bluetooth device when the unit is turned on.	
Bluetooth HF/Audio	Select the speakers used for Bluetooth (both phone use and audio player). ◆ <u>Front Only</u> : From front speakers only. ◆ All : From all speakers.	
Initialize	Hold [Enter] to initialize all settings you have made for using Bluetooth mobile phone and Bluetooth audio player.	
Auto Response* ¹	◆ <u>OFF</u> : The unit does not answer the calls automatically. Answer the calls manually. ◆ ON : The unit answers the incoming calls automatically within 5 seconds.	
SMS Notify* ¹	◆ <u>OFF</u> : The unit does not inform you of the arrival of a message. ◆ ON : The unit informs you of the arrival of a message by ringing and displaying “Receiving Message.”	
Ring Mode* ¹	◆ <u>System</u> : Selects the ring tone set on the unit. ◆ Phone : Selects the ring tone set on the mobile phone. (This function may not work depending on the mobile phone.)	
Ring Tone Change* ¹	When < Ring Mode > is set to < System >, press [Enter] , then select the ring tone for received calls and SMS from < <u>Tone1</u> >, < Tone2 >, < Tone3 >. ◆ Call Tone : Selects the ring tone for phone calls. ◆ Message Tone : Selects the ring tone for SMS.	

*¹ Appears only for <**Handsfree Mode**>.

*² Appears only for <**Bluetooth Mode**>.

USING THE REMOTE CONTROLLER

Overview

DDX7049BT/DDX4049BT/DDX3049:

This unit can be operated using the Remote Controller (RC-DV340) supplied with this unit.
DDX719/DDX419/DDX319:

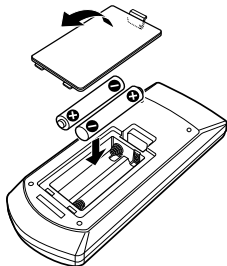
Optional Remote Controller KNA-RCDV331 is designed for controlling this unit. Refer to the instruction manual that comes with the remote controller.

⚠ CAUTION

- Put the Remote Controller in a place where it will not move during braking or other operations. A dangerous situation could result, if the Remote Controller falls down and gets wedged under the pedals while driving.
- Do not leave the battery near fire or under direct sunlight. A fire, explosion or excessive heat generation may result.
- Do not recharge, short, break up or heat the battery or place it in an open fire. Such actions may cause the battery to leak fluid. If spilled fluid comes in contact with your eyes or on clothing, immediately rinse with water and consult a physician.
- Place the battery out of reach of children. In the unlikely event that a child swallows the battery, immediately consult a physician.

Battery installation

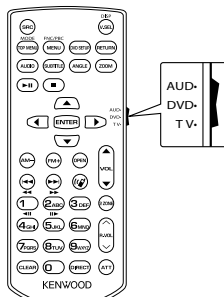
Use two "AAA"/"R03"-size batteries. Insert the batteries with the + and – poles aligned properly, following the illustration inside the case.



- If the Remote Controller operates only over shorter distances or does not operate at all, it is possible that the batteries are depleted. In such instances, replace the both batteries with new ones.

Remote Controller mode switch

The functions operated from the remote controller differ depending on the position of the mode switch.



AUD mode: Switch to this mode when controlling a selected source or tuner source, etc.

DVD mode: Switch to this mode when playing DVDs or CDs etc. with the player integrated in this unit.

TV mode: Not used.

- The position of the remote control mode switch is indicated in the title of each mode, e.g., "(AUD mode)".
- When controlling a player that is not integrated in the unit, select "AUD" mode.

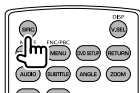
Operations from the remote controller

Common operations (AUD mode)

Source switching

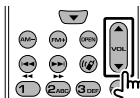
Switches to the source to be played.

Hangs up the incoming/current call.



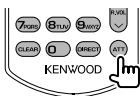
Volume control

Adjusts the volume.



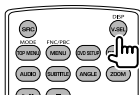
Volume attenuating

Press the key once to lower the volume. Press again to restore the previous volume.



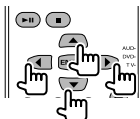
NAV/V.SEL

Switches to the navigation screen.



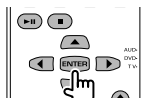
Cursor key

Moves the cursor when displaying menu.



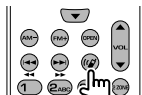
ENTER

Enters options.



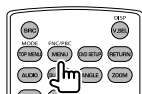
Hands-free communication

When a call comes in, it answers the call.



Function

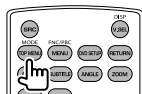
Switches the function screen.



MODE

Switches the screen mode.

Screen mode changes each time you press this key.

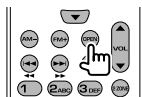


OPEN

(Only for DDX719/DDX7049BT)

Adjusts the panel angle.

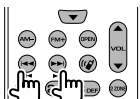
The panel angle changes each time you press this key.



DVD/VCD (DVD mode)

Track search and file search

Selects the track or file to be played.



Play/Pause

Pauses the track.

Press again to resume playing.

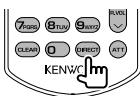


Stop

Memorizes the last point where the disc stopped.



Direct search



Pressing this key switches the features that can be searched directly.

DVD-VIDEO

Chapter number

Title number

Cancel

DVD-VR

Chapter number

Program/Playlist

Cancel

VCD 1.X, VCD 2.X (PBC OFF)

Track number

Cancel

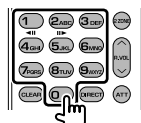
VCD 2.X (PBC ON)

Track number

Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press **[ENTER]** key.

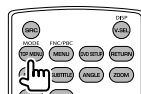
Numeric keypad



- Specify the number to search in direct search.
- Press **1** **2ABC** to fast forward/backward. Switches the fast forward/backward speed each time you press this key.
- Press **1** **2ABC** to slow forward/backward during pause.

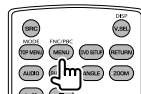
DVD Top Menu

Returns to the DVD top menu.



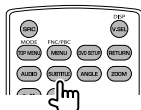
DVD Menu

Displays the DVD menu.



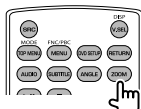
SUBTITLE

Switches the subtitle language.



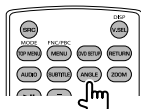
ZOOM

Switches the zoom ratio each time you press this key.



Picture Angle

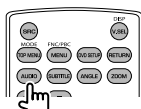
Switches the picture angle each time you press this key.



AUDIO

Switches Voice Language.

Switches the voice language each time you press this key.



Music Disc/Audio file/Video file/ Picture file (AUD mode)

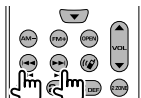
Folder search

Selects the folder to be played.



Track search and file search

Selects the track or file to be played.



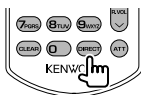
Play/Pause

Pauses the track.

Press again to resume playing.



Direct search



Pressing this key switches the features that can be searched directly.

Music Disc

Track number

Cancel

Audio files in DVD/CD disc

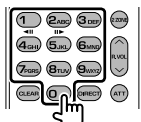
Folder number

File number

Cancel

Once you have switched to the direct search feature, specify the search number from the numeric keypad, and then press [ENTER] key.

Numeric keypad



- Specify the number to search in direct search.

Radio/SiriusXM (AUD mode)

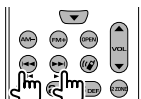
Band switching

Switches to bands received by the unit.



Station selection

Switches to broadcast stations received by the unit.



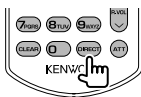
Seek mode switching

Switches the Seek mode (AUTO1, AUTO2, MANU).



Direct tuning

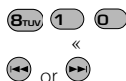
After pressing this key, use the keypad to specify the broadcast station you wish to receive.



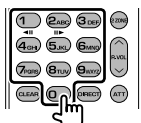
Example: 92.1MHz (FM)



Example: 810kHz (AM)



Numeric keypad

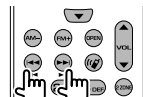


- To use preset tuning, press the number of a programmed broadcast station. (1) – (6)
- Press the direct tuning key first, then specify the frequency of the station to receive.

iPod (AUD mode)

Music/Video search

Selects the music/video to be played.



Play/Pause

Pauses the music/video.

Press again to resume playing.



USB (AUD mode)

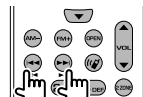
Folder search

Selects the folder to be played.



File search

Selects the file to be played.



Play/Pause

Pauses the file.

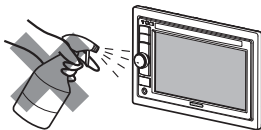
Press again to resume playing.



Maintenance

Caution on cleaning the unit

Do not use any solvent (for example, thinner, benzine, etc.), detergent, or insecticide. This may damage the monitor or the unit.



Recommended cleaning method:

Gently wipe the panel with a soft, dry cloth.

Moisture condensation

Moisture may condense on the lens inside the unit in the following cases:

- After starting the heater in the car.
 - If it becomes very humid inside the car.
- Should this occur, the unit may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs

When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

Center holder



- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc in its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs in their cases after use.

To keep discs clean

A dirty disc may not play correctly. If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.



- Do not use any solvents (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.



To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

3 inch disc



Warped disc



Sticker and sticker residue



Stick-on label



Unusual shape



C-thru Disc (semi-transparent disc)



Transparent or semi-transparent parts on its recording area



More about this unit

■ File playback

Playing DivX files

(Only for DDX7049BT/DDX4049BT/DDX3049)

- This unit can play back DivX files with the extension code <.divx>, <.div>, or <.avi> (regardless of the letter case—upper/lower).
- Audio stream should conform to MP3 or Dolby Digital.
- The file encoded in the interlaced scanning mode may not be played back correctly.

Playing MPEG1/MPEG2 files

- This unit can play back MPEG1/MPEG2 files with the extension code <.mpg>, <.mpeg>, or <.mod>.
- The stream format should conform to MPEG system/program stream.
The file format should be MP@ML (Main Profile at Main Level)/SP@ML (Simple Profile at Main Level)/MP@LL (Main Profile at Low Level).
- Audio streams should conform to MPEG1 Audio Layer-2 or Dolby Digital.

Playing JPEG files

- This unit can play back JPEG files with the extension code <.jpg>, or <.jpeg>.
- This unit can play back JPEG files that are at 32 x 32 to 8 192 x 7 680 resolution. It may take time to display the file depending on its resolution.
- This unit can play back baseline JPEG files. Progressive JPEG files or lossless JPEG files cannot be played.

We bear no responsibility for any loss of data in an iPod/iPhone and USB mass storage class device while using this unit.

Playing MP3/WMA/WAV/AAC files

- This unit can play back files with the extension code <.mp3>, <.wma>, <.wav>, or <.m4a> (regardless of the letter case—upper/lower).
- This unit can play back the files meeting the conditions below:
 - Bit rate:
 - MP3/WMA: 32 kbps — 320 kbps
 - AAC: 16 kbps — 320 kbps
 - Sampling frequency:
 - 48 kHz, 44.1 kHz, 32 kHz (for MPEG1)
 - 24 kHz, 22.05 kHz, 16 kHz (for MPEG2)
 - 48 kHz, 44.1 kHz, 32 kHz, 22.05 kHz (for WMA)
 - 44.1 kHz (for WAV)
 - 48 kHz, 44.1 kHz (for AAC)
- This unit can show ID3 Tag Version 1.0/1.1/2.2/2.3/2.4 (for MP3).
- This unit can also show WAV/WMA Tag.
- This unit can play back files recorded in VBR (variable bit rate).
- Files recorded in VBR have a discrepancy in elapsed time indication.
- This unit cannot play back the following files:
 - MP3 files encoded with MP3i and MP3 PRO format.
 - MP3 files encoded with Layer 1/2.
 - WMA files encoded with lossless, professional, and voice format.
 - WMA files which are not based upon Windows Media® Audio.
 - WMA/AAC files copy-protected with DRM.
 - AAC files encoded by using any other application than iTunes.
 - AAC files copy-protected with FairPlay (except those stored on an iPod).
 - Files which have the data such as AIFF, ATAC3, etc.

■ Sound signals emitted through the rear terminals

Through the analog terminals (Speaker out/Front Preout/Rear Preout)

2-channel signal is emitted. When playing multi-channel encoded disc, multi-channel signals are downmixed.

■ Language codes (for DVD/DivX language selection)

Code	Language	Code	Language	Code	Language	Code	Language
AA	Afar	GL	Galician	MI	Maori	SO	Somali
AB	Abkhazian	GN	Guarani	MK	Macedonian	SQ	Albanian
AF	Afrikaans	GU	Gujarati	ML	Malayalam	SR	Serbian
AM	Ameharic	HA	Hausa	MN	Mongolian	SS	Siswati
AR	Arabic	HI	Hindi	MO	Moldavian	ST	Sesotho
AS	Assamese	HR	Croatian	MR	Marathi	SU	Sundanese
AY	Aymara	HU	Hungarian	MS	Malay (MAY)	SW	Swahili
AZ	Azerbaijani	HY	Armenian	MT	Maltese	TA	Tamil
BA	Bashkir	IA	Interlingua	MY	Burmese	TE	Telugu
BE	Byelorussian	IE	Interlingue	NA	Nauru	TG	Tajik
BG	Bulgarian	IK	Inupiak	NE	Nepali	TH	Thai
BH	Bihari	IN	Indonesian	NO	Norwegian	TI	Tigrinya
BI	Bislama	IS	Icelandic	OC	Occitan	TK	Turkmen
BN	Bengali, Bangla	IW	Hebrew	OM	(Afan) Oromo	TL	Tagalog
BO	Tibetan	JA	Japanese	OR	Oriya	TN	Setswana
BR	Breton	JI	Yiddish	PA	Panjabi	TO	Tonga
CA	Catalan	JW	Javanese	PL	Polish	TR	Turkish
CO	Corsican	KA	Georgian	PS	Pashto, Pushto	TS	Tsonga
CS	Czech	KK	Kazakh	QU	Quechua	TT	Tatar
CY	Welsh	KL	Greenlandic	RM	Rhaeto-Romance	TW	Twi
DZ	Bhutani	KM	Cambodian	RN	Kirundi	UK	Ukrainian
EL	Greek	KN	Kannada	RO	Rumanian	UR	Urdu
EO	Esperanto	KO	Korean (KOR)	RW	Kinyarwanda	UZ	Uzbek
ET	Estonian	KS	Kashmiri	SA	Sanskrit	VI	Vietnamese
EU	Basque	KU	Kurdish	SD	Sindhi	VO	Volapuk
FA	Persian	KY	Kirghiz	SG	Sangho	WO	Wolof
FI	Finnish	LA	Latin	SH	Serbo-Croatian	XH	Xhosa
FJ	Fiji	LN	Lingala	SI	Singhalese	YO	Yoruba
FO	Faroese	LO	Laothian	SK	Slovak	ZU	Zulu
FY	Frisian	LT	Lithuanian	SL	Slovenian		
GA	Irish	LV	Latvian, Lettish	SM	Samoa		
GD	Scots Gaelic	MG	Malagasy	SN	Shona		

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

- For operations with the external components, refer also to the instructions supplied with the adapters used for the connections (as well as the instructions supplied with the external components).

■ If the following messages appear

Message	Remedy/Cause
"No Signal"	<ul style="list-style-type: none">• Start the playback on the external component connected to AV-IN input terminal.• Check the cords and connections.• Signal input is too weak.
<ul style="list-style-type: none">• "Miswiring DC Offset Error"• "Warning DC Offset Error"	A speaker cord has shorted or it has come in to contact with the car chassis. Wire or insulate the speaker cord as appropriate, then reset the unit (☞ page 3, 78).
"Parking off"	No playback picture is shown when the parking brake is not engaged.
"Authorization Error"	Check whether the connected iPod/iPhone is compatible with this unit. (☞ page 24)
"USB Device Error"	<ul style="list-style-type: none">• The USB power voltage is abnormal.• Turn off and turn on the unit.• Connect another USB device.
"No BT Dongle"	Bluetooth adapter (KS-UBT1) is removed.
"Connection Error"	The device is registered but the connection has failed. Connect the registered device. (☞ page 55)
"Please Wait..."	The unit is preparing to use the Bluetooth function. If the message does not disappear, turn off and turn on the unit, then connect the device again (or reset the unit).
"NO Voice Device"	The connected mobile phone does not have the voice recognition system.
"NO Data"	No phonebook data is contained in the connected Bluetooth phone.
"Initialize Error"	The unit has failed to initialize the Bluetooth module. Try the operation again.
"Dial Error"	Dialing has failed. Try the operation again.
"Hung Up Error"	The call has not ended yet. Park your car, and use the connected mobile phone to end the call.
"Pick Up Error"	The unit has failed to receive a call.
"Pairing Mode Error"	Pairing between the unit and Bluetooth device has failed. Register the device again. (☞ page 54)
"Panel Mecha Error"	The panel does not work properly. Reset the unit.
"No Navigation"	No navigation unit is connected.

Pandora (Only for DDX719/DDX419/DDX319)

Message	Remedy/Cause
"Cannot Skip"	No more songs can be skipped.
"Rating Failed"	Thumb-up/-down is prohibited.
"No Station"	No station is available.
"No Active Station"	No station is being played.

SiriusXM (Only for DDX719/DDX419/DDX319)

Message	Remedy/Cause
"Check Tuner"	The SiriusXM Tuner is disconnected or the unit is having trouble communicating with the Tuner. Connect the Tuner or check the Tuner connection to the back of the unit.
"Subscription Updated – Press Enter to Continue"	Your subscription status has been updated.
<ul style="list-style-type: none">• "Chan Unavailable"• "Ch Unavl"	The selected channel is not available.
<ul style="list-style-type: none">• "Chan UnSubscribed"• "Ch Unsub"	The selected channel has not been subscribed yet.
"Incorrect Lock Code"	The selected channel is a mature or parental lock channel, and locked by parental lock or user lock code. Enter the correct lock code.
<ul style="list-style-type: none">• "Check Antenna"• "Chek Ant"	The antenna may have a problem. Check the antenna.
<ul style="list-style-type: none">• "No Signal"• "NoSignal"	No satellite or terrestrial signal can be found. This message appears when the channel selection cannot be complete even in a given time.

■ If there seems to be a problem

	Symptom	Remedy/Cause
General	No sound comes out of the speakers.	<ul style="list-style-type: none"> Adjust the volume to the optimum level. Check the cords and connections.
	No picture is displayed on the screen.	Turn on the screen. (☞ page 11)
	The unit does not work at all.	Reset the unit. (☞ page 3)
	The remote controller* does not work.	Replace the battery.
TUNER	AME automatic presetting does not work.	Store stations manually. (☞ page 30)
	Static noise while listening to the radio.	Connect the antenna firmly.
Disc in general	<ul style="list-style-type: none"> Recordable/Rewritable discs cannot be played back. Tracks on the Recordable/Rewritable discs cannot be skipped. 	<ul style="list-style-type: none"> Insert a finalized disc. Finalize the discs with the component which you used for recording.
	Playback does not start.	The format of files is not supported by the unit.
	No picture appears on the external monitor.	<ul style="list-style-type: none"> Connect the video cord correctly. Select the correct input on the external monitor.
DivX/MPEG1/MPEG2/JPEG/MP3/WMA/WAV/AAC	Disc cannot be played back.	<ul style="list-style-type: none"> Record the tracks using a compliant application on the appropriate discs. (☞ page 16) Add appropriate extension codes to the file names.
	Tracks are not played back as you have intended them to play.	Playback order may differ from the one played back using other players.
AV-IN	No picture appears on the screen.	<ul style="list-style-type: none"> Turn on the video component if it is not on. Connect the video component correctly.

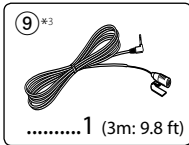
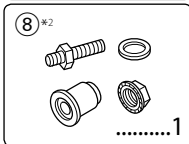
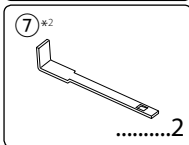
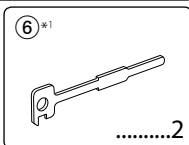
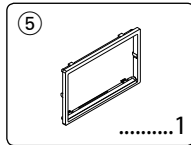
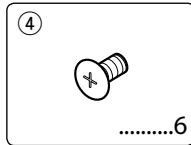
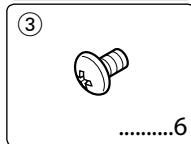
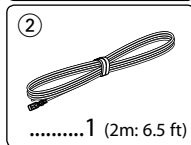
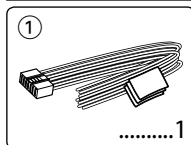
* For DDX719/DDX419/DDX319, purchase KNA-RCDV331 separately.

	Symptom	Remedy/Cause
iPod/iPhone	No sound comes out of the speakers.	<ul style="list-style-type: none"> • Disconnect the iPod, then connect it again. • Select another source and then reselect "iPod".
	The iPod/iPhone does not turn on or does not work.	<ul style="list-style-type: none"> • Check the connecting cable and its connection. • Update the firmware version. • Charge the battery. • Check whether the iPod control mode is correctly selected. (☞ page 26) • Reset the iPod/iPhone.
	Sound is distorted.	Deactivate the equalizer either on this unit or the iPod/iPhone.
	A lot of noise is generated.	Turn off (uncheck) the "VoiceOver" feature of the iPod. For details, visit < http://www.apple.com >.
	No operations are available when playing back a track containing Artwork.	Operate the unit after the Artwork is loaded. (☞ page 24)
	Sound does not synchronize with the video.	Select < iPod > for < AV Input >. (☞ page 50)
USB	<ul style="list-style-type: none"> • Videos cannot be played. • No sound of videos comes out. 	<ul style="list-style-type: none"> • Connect USB Audio and Video cable KCA-iP202/ KCA-iP22F. Other cables cannot be used. • Select <iPod> for <AV Input>. (☞ page 50)
	"Reading..." keeps flashing on the screen.	Turn off the power and on again.
	While playing a track, sound is sometimes interrupted.	The tracks are not properly copied into the USB device. Copy tracks again, and try again.

	Symptom	Remedy/Cause
Bluetooth (only for DDX719/DDX7049BT/DDX419/DDX4049BT)	Phone sound quality is poor.	<ul style="list-style-type: none"> • Reduce the distance between the unit and the Bluetooth mobile phone. • Move the car to place where you can get a better signal reception.
	The sound is interrupted or skipped while using a Bluetooth audio player.	<ul style="list-style-type: none"> • Reduce the distance between the unit and the Bluetooth audio player. • Disconnect the device connected for Bluetooth phone. • Turn off, then turn on the unit. • (When the sound is not yet restored) connect the player again.
	The connected audio player cannot be controlled.	Check whether the connected audio player supports AVRCP (Audio Video Remote Control Profile).
	Bluetooth device does not detect the unit.	<ul style="list-style-type: none"> • Check whether the Bluetooth adapter (KS-UBT1) is inserted correctly. • Search from the Bluetooth device again.
	The unit does not make pairing with the Bluetooth device.	Enter the same PIN code for both the unit and target device. If the PIN code of the device is not indicated on its instructions, try "0000" or "1234."
	Echo or noise occurs.	Adjust the microphone unit position.
	The unit does not respond when you try to copy the phonebook to the unit.	You may have tried to copy the same entries (as stored) to the unit.

Accessories/Installation Procedure

Accessories



*1 DDX419/DDX4049BT/
DDX319/DDX3049 only.

*2 DDX719/DDX7049BT
only.

*3 DDX719/DDX7049BT/
DDX419/DDX4049BT
only.

- 7 Reconnect the ⊖ battery.
- 8 Press the reset button.
- 9 Perform the Initial Setup.

▲WARNING

- If you connect the ignition wire (red) and the battery wire (yellow) to the car chassis (ground), you may cause a short circuit, that in turn may start a fire. Always connect those wires to the power source running through the fuse box.
- Do not cut out the fuse from the ignition wire (red) and the battery wire (yellow). The power supply must be connected to the wires via the fuse.

After the Installation

After the installation, perform the Initial Setup by referring to the instruction manual.

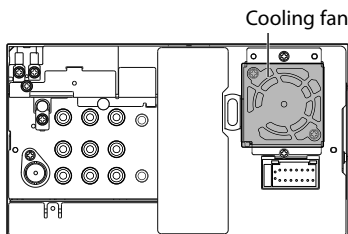


- Mounting and wiring this product requires skills and experience. For best safety, leave the mounting and wiring work to professionals.
- Make sure to ground the unit to a negative 12V DC power supply.
- Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.
- Do not use your own screws. Use only the screws provided. If you use the wrong screws, you could damage the unit.
- If the power is not turned ON ("Miswiring DC Offset Error", "Warning DC Offset Error" is displayed), the speaker wire may have a short-circuit or touched the chassis of the vehicle and the protection function may have been activated. Therefore, the speaker wire should be checked.
- If your car's ignition does not have an ACC position, connect the ignition wires to a power source that can be turned on and off with the ignition key. If you connect the ignition wire to a power source with a constant voltage supply, such as with battery wires, the battery may be drained.
- If the console has a lid, make sure to install the unit so that the faceplate will not hit the lid when closing and opening.
- If the fuse blows, first make sure the wires aren't touching to cause a short circuit, then replace the old fuse with one with the same rating.

Installation Procedure

- 1 To prevent a short circuit, remove the key from the ignition and disconnect the ⊖ battery.
- 2 Make the proper input and output wire connections for each unit.
- 3 Connect the speaker wires of the wiring harness.
- 4 Connect the wiring harness wires in the following order: ground, battery, ignition.
- 5 Connect the wiring harness connector to the unit.
- 6 Install the unit in your car.

- Insulate unconnected wires with vinyl tape or other similar material. To prevent a short circuit, do not remove the caps on the ends of the unconnected wires or the terminals.
- Connect the speaker wires correctly to the terminals to which they correspond. The unit may be damaged or fail to work if you share the \ominus wires or ground them to any metal part in the car.
- When only two speakers are being connected to the system, connect the connectors either to both the front output terminals or to both the rear output terminals (do not mix front and rear). For example, if you connect the \oplus connector of the left speaker to a front output terminal, do not connect the \ominus connector to a rear output terminal.
- After the unit is installed, check whether the brake lamps, blinkers, wipers, etc. on the car are working properly.
- Mount the unit so that the mounting angle is 30° or less.
- Do not press hard on the panel surface when installing the unit to the vehicle. Otherwise scars, damage, or failure may result.
- This unit has the cooling fan to decrease the internal temperature. Do not mount the unit in a place where the cooling fan of the unit are blocked. Blocking these openings will inhibit the cooling of the internal temperature and result in malfunction.




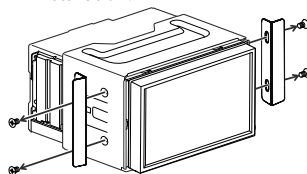
⚠ CAUTION


Install this unit in the console of your vehicle.
Do not touch the metal part of this unit during and shortly after the use of the unit. Metal part such as the heat sink and enclosure become hot.

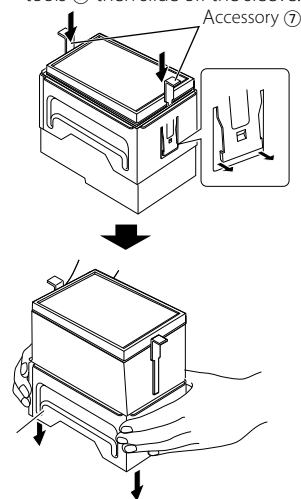
DDX719/ DDX7049BT only

1 Before installation, remove the screws.

 Do not use the removed screws for installation.

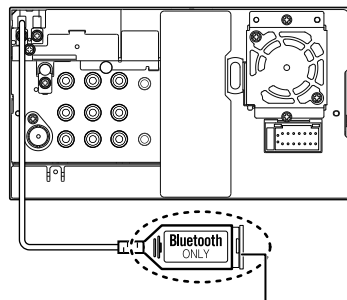


2 Detach the sleeve using the two removal tools  then slide off the sleeve.



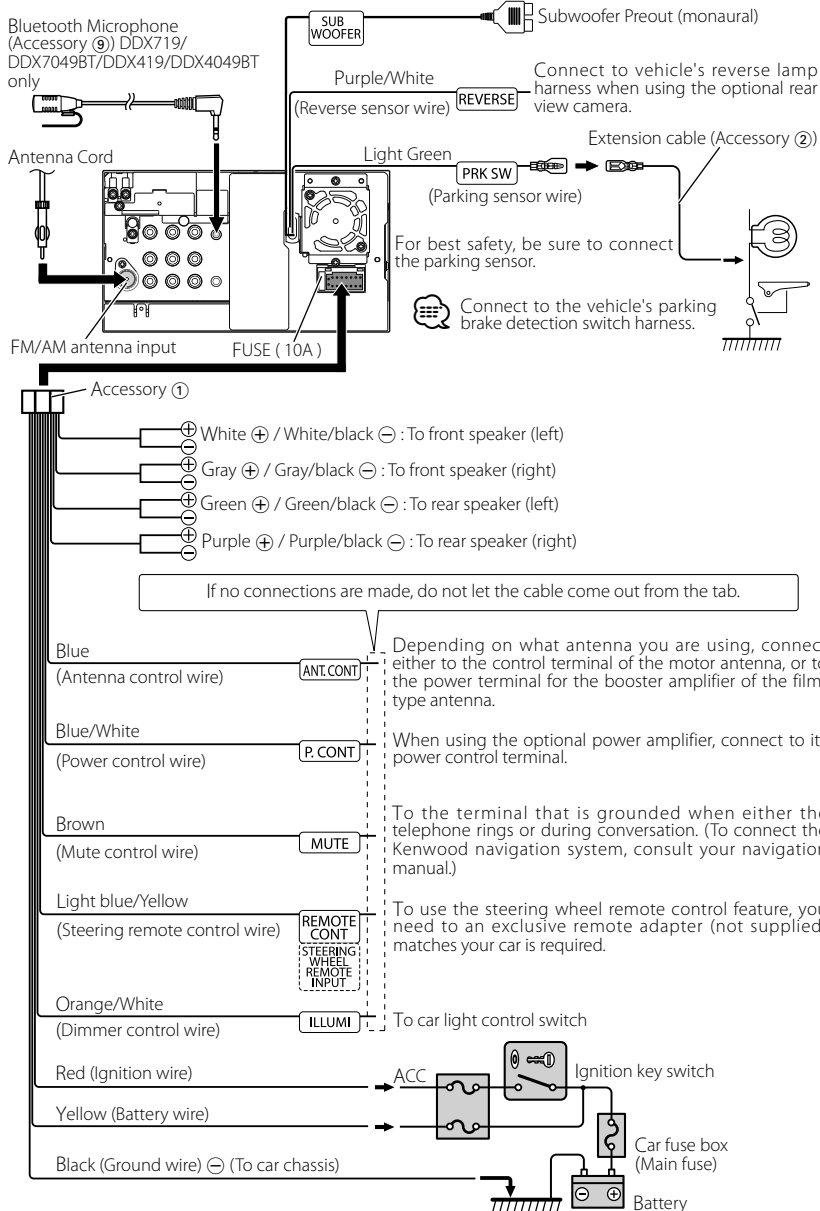
DDX419/ DDX4049BT only

- Install the Bluetooth adaptor (KS-UBT1) besides the place enclosed by the metal.



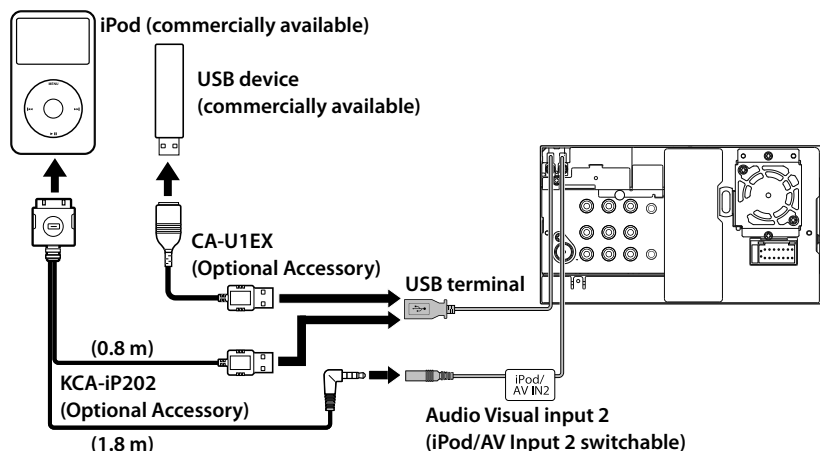
Bluetooth adaptor (KS-UBT1)

Connecting Wires to Terminals

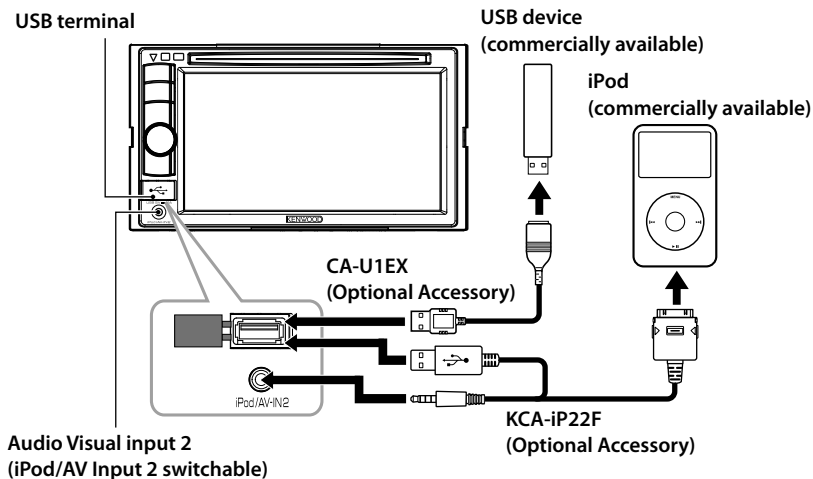


Connecting a USB device/iPod/iPhone

For DDX719/DDX7049BT

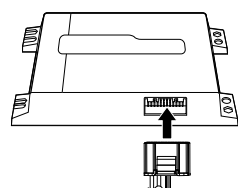


For DDX419/DDX319/DDX4049BT/DDX3049



Connecting Other Products

Navigation System (Optional Accessory) DDX7049BT/DDX4049BT/DDX3049 only



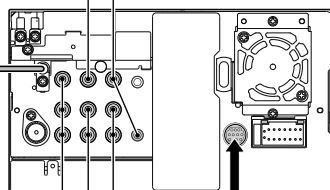
Navigation units that can be connected to this unit.
(As of December, 2011):

- KNA-G610
- KNA-G630

For latest information, access the www.kenwood.com/cs/ce/.

Connection cable
(Included in the Navigation System)

- Rear View Camera Input**
 - Visual input (Yellow)
- Audio/Visual Output**
 - Visual output (Yellow)
 - Audio output (3.5φ mini plug)
Resistance-free stereo type mini plug



SiriusXM Tuner (commercially available)
DDX719/DDX419/DDX319 only

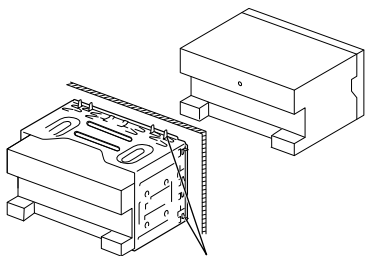
- Rear Preout**
 - Audio left output (White)
 - Audio right output (Red)

- Front Preout**
 - Audio left output (White)
 - Audio right output (Red)

- Audio Visual input 1**
 - Visual input (Yellow)
 - Audio left input (White)
 - Audio right input (Red)

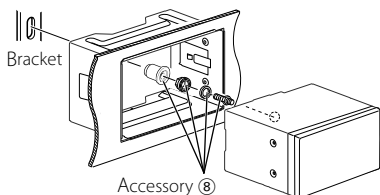
Installing/Removing the Unit

Installing the Unit



Bend the tabs of the mounting sleeve with a screwdriver or similar utensil and attach it in place.

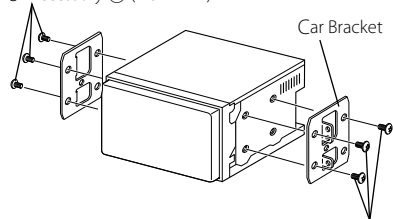
For more stable attachment the unit (DDX719/ DDX7049BT only)



- Make sure that the unit is installed securely in place. If the unit is unstable, it may malfunction (eg, the sound may skip).

Installation on Toyota, Nissan or Mitsubishi Car using Brackets

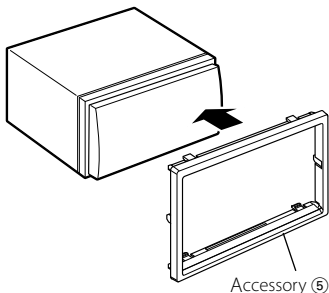
Accessory ③ (M5x6mm)
or Accessory ④ (M5x7mm)



Accessory ③ (M5x6mm)
or Accessory ④ (M5x7mm)

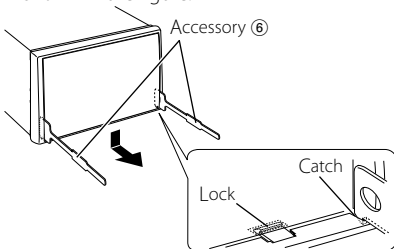
Installing the Escutcheon

- 1 Attach accessory ⑤ to the unit.



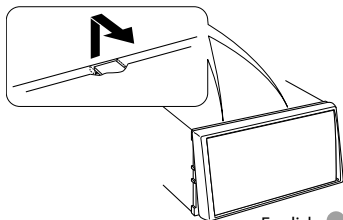
Removing the Escutcheon (DDX419/DDX4049BT/ DDX319/DDX3049 only)

- 1 Engage the catch pins on the removal tool ⑥ and remove the two locks on the lower level. Lower the frame and pull it forward as shown in the figure.



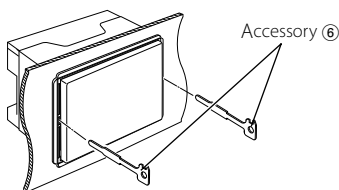
- The frame can be removed from the top side in the same manner.

- 2 When the lower level is removed, remove the upper two locations.

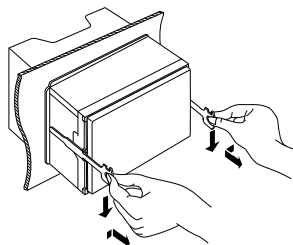


Removing the Unit (DDX419/DDX4049BT/ DDX319/DDX3049 only)

- 1 Remove the escutcheon by referring to the removal procedure in the section <Removing the Escutcheon>.
- 2 Insert the two removal tools ⑥ deeply into the slots on each side, as shown.

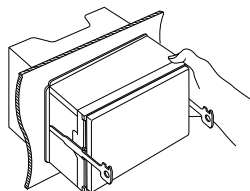


- 3 Lower the removal tool toward the bottom, and pull out the unit halfway while pressing towards the inside.



- Be careful to avoid injury from the catch pins on the removal tool.

- 4 Pull the unit all the way out with your hands, being careful not to drop it.

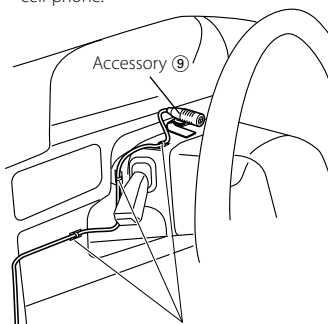


Installing the Microphone Unit (DDX719/DDX7049BT/ DDX419/DDX4049BT only)

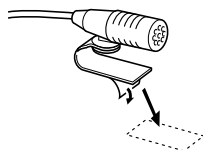
- 1 Check the installation position of the microphone (accessory ⑨).
- 2 Remove oil and other dirt from the installation surface.
- 3 Install the microphone.
- 4 Wire the microphone cable up to the unit with it secured at several positions using tape or the like.



- Install the microphone as far as possible from the cell-phone.



Fix a cable with a commercial item of tape.



Peel the release coated paper of double-face adhesive tape to fix on the place shown above.



Adjust the direction of the microphone to the driver.

Specifications

Monitor section

Picture Size

- : 6.95 inches (diagonal) wide
156.6 mm (W) × 81.6 mm (H)
(DDX719/DDX7049BT)
- : 6.1 inches (diagonal) wide
136.2 mm (W) × 72 mm (H)
(DDX419/DDX4049BT/DDX319/
DDX3049)

Display System

- : Transparent TN LCD panel

Drive System

- : TFT active matrix system

Number of Pixels

- : 1,152,000 (800H × 480V × RGB)

Effective Pixels

- : 99.99%

Pixel Arrangement

- : RGB striped arrangement

Back Lighting

- : LED

DVD player section

D/A Converter

- : 24 bit

Audio Decoder

- : Linear PCM/Dolby Digital/dts/MP3/
WMA/AAC/WAV

Video Decoder

- : MPEG1/MPEG2/
DivX (DDX7049BT/DDX4049BT/DDX3049)

Wow & Flutter

- : Below Measurable Limit

Frequency Response

- Sampling frequency;
- 96 kHz: 20 – 22,000 Hz
- 48 kHz: 20 – 22,000 Hz
- 44.1 kHz: 20 – 20,000 Hz

Total Harmonic Distortion

- : 0.010% (1 kHz)

S/N Ratio (dB)

- : 99 dB (DVD-Video 96 kHz)

Dynamic Range

- : 98 dB (DVD-Video 96 kHz)

Disc Format

- : DVD-Video/VIDEO-CD/CD-DA

Sampling frequency

- : 44.1/48/96 kHz

Quantifying Bit Number

- : 16/20/24 bit

USB interface section

USB Standard

- : USB 2.0 Full Speed

File System

- : FAT 16/32

Maximum Power Supply Current

- : DC 5 V  1 A

D/A Converter

- : 24 Bit

Video Decoder

- : MPEG1/MPEG2/
DivX (DDX7049BT/DDX4049BT/DDX3049)

Audio Decoder

- : MP3/WMA/AAC/WAV (Linear PCM)

Bluetooth section (DDX719/ DDX7049BT/DDX419/DDX4049BT)

Technology

- : Bluetooth 2.0 Certified

Frequency

- : 2.402 – 2.480 GHz

Output Power

- : +4dBm (MAX), 0dBm (AVE), Power
Class2

Maximum Communication range

- : Line of sight approx. 10m (32.8 ft)

Profile

- HFP (Hands Free Profile),
OPP (Object Push Profile),
PBAP (Phonebook Access Profile),
A2DP (Advanced Audio Distribution
Profile),
AVRCP (Audio/Video Remote Control
Profile)

FM tuner section

Frequency Range

200 kHz: 87.9 MHz – 107.9 MHz
(DDX719/DDX419/DDX319)
50 kHz: 87.5 MHz – 108.0 MHz
(DDX7049BT/DDX4049BT/DDX3049)

Usable Sensitivity (S/N: 30 dB)

: 9.3 dBf (0.8 μ V/75 Ω)

Quieting Sensitivity (S/N: 50 dB)

: 15.2 dBf (1.6 μ V/75 Ω)

Frequency Response (\pm 3.0 dB)

: 30 Hz – 15 kHz

S/N Ratio (dB)

: 70 dB (MONO)

Selectivity (\pm 400 kHz)

: \geq 65 dB

Stereo Separation

: 40 dB (1 kHz)

AM tuner section

Frequency Range (10 kHz)

: 530 kHz – 1 700 kHz

Usable Sensitivity

: 28 dB μ

Video section

Color System of External Video Input

: NTSC/PAL

External Video Input Level (RCA/mini jack)

: 1 Vp-p/ 75 Ω

External Audio Max Input Level (RCA/mini jack)

: 2 V/ 25 k Ω

Video Output Level (RCA jack)

: 1 Vp-p/ 75 Ω

Audio Output Level (mini jack)

: 1.2 V/ 10 k Ω

Analog RGB input

: 0.7 Vp-p/ 75 Ω

Audio section

Maximum Power (Front & Rear)

: 50 W \times 4

Full Bandwidth Power (Front & Rear)

(4 Ω , 14.4 V, 1% THD)

: 22 W \times 4

Preout Level (V)

: 4 V/10 k Ω

Preout Impedance

: \leq 600 Ω

Speaker Impedance

: 4 – 8 Ω

Tone

Bass: 100 Hz \pm 8 dB

Middle: 1 kHz \pm 8 dB

Treble: 12.5 kHz \pm 8 dB

General

Operating Voltage

: 14.4 V (10.5 – 16 V allowable)

Maximum Current Consumption

: 10 A

Dimensions (W \times H \times D)

: 182 \times 111 \times 160 mm

7-3/16 \times 4-6/16 \times 6-5/16 inch

(DDX719/DDX7049BT)

182 \times 112 \times 163 mm

7-3/16 \times 4-7/16 \times 6-7/16 inch

(DDX419/DDX4049BT/DDX319/

DDX3049)

Operational Temperature Range

: -10°C – +60°C

Storage Temperature Range

: -20°C – +85°C

Weight

: 2.5 kg (5.5 lbs)

(DDX719/DDX7049BT)

2.0 kg (4.4 lbs)

(DDX419/DDX4049BT/DDX319/

DDX3049)

- Although the effective pixels for the liquid crystal panel is given as 99.99% or more, 0.01% of pixels may not light or may light incorrectly.
- Specifications are subject to change without notice.

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KS-UBT1 (USB Bluetooth Adapter)

Instruction Manual

⚠ CAUTION

Changes or modifications not approved by us could void the user's authority to operate the equipment.

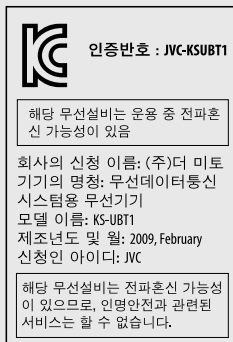
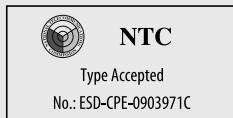
- This adapter has been designed exclusively for use with Kenwood car receivers. Do not use this adapter with any other car receiver. For details, see also the Instructions supplied with your receiver.
- The Bluetooth word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by JVC KENWOOD Corporation is under license. Other trademarks and trade names are those of their respective owners.

Specifications

Bluetooth Version: Bluetooth 2.0 Certified
Power Class: Class2 Radio
Service Area: 10 m (10.9 yd)
USB Standards: USB V1.1 (Full Speed)
Power Consumption: 54.3 mA/5 V (max.)
Dimensions (L x W x H):
15 mm x 19 mm x 5.6 mm
(5/8" x 3/4" x 1/4")

Keep the Bluetooth adapter inserted when using the Bluetooth function.

When the adapter is removed, store it in a safe place.



Distributor name: JVC KENWOOD DO BRASIL COMERCIO DE ELETRONICOS LTDA
CNPJ of distributor: JVC KENWOOD DO BRASIL COMERCIO DE ELETRONICOS LTDA
Manufacturer: JVC KENWOOD Corporation
Model no.: KS-UBT1
Brand: JVC



0178-11-6733



(01)07898929117502

"Este equipamento opera em caráter secundário, isto é, não tem direito à proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

N49

Approved by TRA

MTC:OFICIO No 8396-2008-MTC/29

CONATEL certificate No: 001516

SUBTEL: 30234/DFRS00045/F-49

Complies with
IDA Standards
DB102150

"This telecommunication equipment conforms to NTC technical requirement"

13973/POSTEL/2010
2366

TEC/WR/1/MOD-08/02/135.APR 08

URSEC 365/FR/2010

CNC 16-9371

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

FCC NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

IC (Industry Canada) Notice

This device complies with RSS-210 of industry Canada Rules. Operation is subject to the following two conditions:

(1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme au règlement CNR-210 de l'industrie du Canada. L'utilisation de ce dispositif est autorisée seulement aux conditions suivantes:

(1) il ne doit pas produire de brouillage et (2) l'utilisateur du dispositif doit être prêt à accepter tout brouillage radioélectrique reçu, même si ce brouillage est susceptible de compromettre le fonctionnement du dispositif.

CAUTION

This equipment complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This equipment has very low levels of RF energy that it deemed to comply without maximum permissive exposure evaluation (MPE). But it is desirable that it should be installed and operated keeping the radiator at least 20cm or more away from person's body (excluding extremities: hands, wrists, feet and ankles).

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

KENWOOD